

T A B L E S

Calculated for the USE of the
 REVENUE OFFICERS
 O F
 I R E L A N D.

C O N T A I N I N G,

- I. New and correct TABLES of CYLINDERS from 10 Inches to 45 Inches Diameter, with their Use.
- II. A TABLE shewing the Areas of Squares in Gallons and Decimal Parts, calculated to every tenth Part and Quarter of an Inch of the Side, from 1 to 100 Inches.
- III. A TABLE of Allowance to common Brewers of two Gallons in 22 for Ale, and of $2\frac{1}{2}$ Gallons in 23 for Beer X and VI.
- IV. New and correct MONEY TABLES for Ale and Small Beer, in which the hereditary Revenue, and additional Duties, are calculated and proportioned to the Gallon of 217.6 Cubic Inches; as lately ordered by the Right Honourable and Honourable the Commissioners of his Majesty's Revenue of Ireland.
- V. A new and correct MONEY TABLE for strong Waters at 2 Pence, 8 Pence, and 10 Pence per Gallon, from 1 to 20000 Gallons.

By GEORGE M'GREGOR, Philomath.

D U B L I N:

Printed by JAMES POTTS, at *Swift's Head* in Dame street.

M.DCC.LXXIII.

How to Gauge a standing Cask
of w^{ch} part is empty by the Slide —
Rule —

Set 36 the Casks supposed length
on line C, to 100 on line D —
And under 27 the Wet on C you
have 77 on line SS. Next set y^e
Casks whole Cont^r 122 on line B
to 100 on line A, and under 77
on line A. You have 93 $\frac{1}{4}$ on line
D — which is y^e same as by
the Pen —

The Casks length is supposed
to be 36 In^s wet 27 D^o and y^e
Whole Cont^r 122 Gall^s —

TO THE
R E A D E R.

MANY Gentlemen having complained of the inconvenience arising from the size of Ballard's Treatise on Gauging, as well as of the incorrectness of that work, since its first publication, wherein are inserted a number of articles, not only unnecessary to the acquisition of that science, but tiresome and disgusting to the reader; the Editor has, by the advice of several gentlemen in the revenue, given the public an accurate edition of the essential parts of Ballard, together with M^cGregor's, and other additional tables, entirely new, which, being the substance of the latest improvements in that useful branch, must render this work the most perfect in its kind of any hitherto offered to the world, on so interesting a subject.

With respect to the present, he begs leave to observe, that the purchasers will receive a double benefit, as the work is printed on fine paper, very correct, and takes up little room in the pocket.

TABLE OF CYLINDERS.

THE USE of the following Table is to shew the Content of any *Cylindrical* Vessel in Gallons, the Diameter and Depth being given.

1. Example.

Suppose the Diameter of a Cylinder to be 29.6, and the Depth 24 Inches, how many Gallons doth it contain?

At the Head of the Table, find the Diameter 29, and in the first Column 24 the Depth, against which, and under .6 the remaining part of the Diameter, you have 75.91 Gallons, the Content of the Cylinder.

2. Example.

Suppose the Liquor in this Vessel was 19.8 Inches Deep.

Against 19 Inches you have ————— 60.09

Against 8 Inches Deep you have 25.30, remove the Point one Place towards the Left-hand it will give the Content at } 2.53

.8 Deep, viz.

Content at 19.8. Deep ————— 62.62

Note.

If the Diameter of a Cylinder exceeds 45 Inches, find it in the First Column of the Table of Circles Areas, and against the whole Inches of the Diameter, and under the Tenths, if any be, you have the Content at One Inch Deep; which multiplied by the Depth, gives the whole Content in Gallons and Parts:

CYLINDERS

The above Example is Mentioned in
Page 156

CYLINDERS in GALLONS.

5

10 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.36	0.36	0.37	0.38	0.39	0.39	0.40	0.41	0.42	0.42
2	0.72	0.73	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85
3	1.08	1.10	1.12	1.14	1.17	1.19	1.21	1.23	1.26	1.28
4	1.44	1.47	1.50	1.53	1.56	1.59	1.62	1.65	1.68	1.71
5	1.80	1.84	1.87	1.91	1.95	1.99	2.03	2.06	2.10	2.14
6	2.16	2.20	2.25	2.29	2.34	2.38	2.43	2.47	2.52	2.57
7	2.52	2.57	2.62	2.68	2.73	2.78	2.84	2.89	2.94	3.00
8	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.30	3.36	3.43
9	3.24	3.31	3.37	3.44	3.51	3.58	3.65	3.71	3.78	3.86
10	3.61	3.68	3.75	3.83	3.90	3.98	4.06	4.13	4.21	4.29
11	3.97	4.04	4.12	4.21	4.29	4.37	4.46	4.54	4.63	4.71
12	4.33	4.41	4.50	4.59	4.68	4.77	4.87	4.95	5.05	5.14
13	4.69	4.78	4.87	4.97	5.07	5.17	5.27	5.36	5.47	5.57
14	5.05	5.15	5.25	5.36	5.46	5.57	5.68	5.78	5.89	6.00
15	5.41	5.52	5.62	5.74	5.85	5.97	6.09	6.19	6.31	6.43
16	5.77	5.88	6.00	6.12	6.24	6.36	6.49	6.60	6.73	6.86
17	6.13	6.25	6.37	6.51	6.63	6.76	6.90	7.02	7.15	7.29
18	6.49	6.62	6.75	6.89	7.02	7.16	7.30	7.43	7.57	7.72
19	6.85	6.99	7.12	7.27	7.41	7.56	7.71	7.84	7.99	8.15
20	7.22	7.36	7.50	7.66	7.80	7.96	8.12	8.26	8.42	8.58
21	7.58	7.72	7.87	8.04	8.19	8.35	8.52	8.67	8.84	9.00
22	7.94	8.09	8.24	8.42	8.58	8.75	8.93	9.08	9.26	9.43
23	8.31	8.46	8.62	8.80	8.97	9.15	9.33	9.49	9.68	9.86
24	8.66	8.83	9.03	9.19	9.36	9.55	9.74	9.91	10.10	10.29
25	9.02	9.20	9.37	9.57	9.75	9.95	10.15	10.32	10.52	10.72
26	9.38	9.56	9.75	9.95	10.14	10.34	10.55	10.75	10.94	11.15
27	9.74	9.93	10.12	10.34	10.53	10.74	10.96	11.15	11.36	11.58
28	10.10	10.30	10.50	10.72	10.92	11.14	11.36	11.56	11.78	12.01
29	10.46	10.67	10.87	11.10	11.31	11.54	11.77	11.97	12.20	12.44
30	10.83	11.04	11.25	11.49	11.70	11.94	12.15	12.35	12.63	12.87

Area

CYLINDERS

CYLINDERS in GALLONS.

11 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.50	0.51
2	0.87	0.89	0.90	0.92	0.93	0.95	0.97	0.98	1.00	1.02
3	1.31	1.33	1.35	1.38	1.40	1.43	1.45	1.48	1.50	1.53
4	1.74	1.78	1.81	1.84	1.87	1.90	1.94	1.97	2.00	2.04
5	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.47	2.51	2.55
6	2.62	2.67	2.71	2.76	2.81	2.86	2.91	2.96	3.01	3.06
7	3.05	3.11	3.17	3.22	3.28	3.33	3.39	3.45	3.51	3.57
8	3.49	3.56	3.62	3.68	3.75	3.81	3.88	3.95	4.01	4.08
9	3.93	4.00	4.07	4.14	4.22	4.29	4.36	4.44	4.51	4.59
10	4.37	4.45	4.53	4.61	4.69	4.77	4.85	4.94	5.02	5.11
11	4.80	4.89	4.96	5.07	5.15	5.24	5.33	5.43	5.52	5.62
12	5.24	5.34	5.43	5.53	5.62	5.72	5.82	5.92	6.02	6.13
13	5.68	5.78	5.88	5.99	6.09	6.20	6.30	6.42	6.52	6.64
14	6.11	6.23	6.34	6.45	6.56	6.67	6.79	6.91	7.02	7.15
15	6.55	6.67	6.79	6.91	7.03	7.15	7.27	7.41	7.53	7.66
16	6.99	7.12	7.24	7.37	7.50	7.63	7.76	7.90	8.03	8.17
17	7.42	7.56	7.70	7.83	7.97	8.10	8.24	8.39	8.53	8.68
18	7.86	8.01	8.15	8.29	8.44	8.58	8.73	8.89	9.03	9.19
19	8.30	8.45	8.60	8.75	8.91	9.06	9.21	9.38	9.53	9.70
20	8.74	8.90	9.06	9.22	9.38	9.54	9.70	9.88	10.04	10.22
21	9.17	9.34	9.51	9.68	9.84	10.01	10.18	10.37	10.54	10.73
22	9.61	9.79	9.96	10.14	10.31	10.49	10.67	10.86	11.04	11.24
23	10.05	10.23	10.41	10.60	10.78	10.97	11.15	11.36	11.54	11.75
24	10.48	10.68	10.87	11.06	11.25	11.44	11.64	11.85	12.04	12.26
25	10.92	11.12	11.32	11.52	11.72	11.92	12.12	12.35	12.55	12.77
26	11.36	11.57	11.77	11.98	12.19	12.40	12.61	12.84	13.05	13.28
27	11.79	12.01	12.23	12.44	12.66	12.87	13.09	13.33	13.55	13.79
28	12.23	12.46	12.68	12.90	13.13	13.35	13.58	13.81	14.05	14.30
29	12.67	12.90	13.13	13.36	13.60	13.83	14.06	14.32	14.55	14.81
30	13.11	13.35	13.59	13.83	14.07	14.31	14.55	14.82	15.06	15.33

CYLINDERS

the Slide Rule I have assembled for 115
 B to 100 on line A. and under the wet
 which bear in mind - then set the back
 and over the Number which you carried in
 have the content on line C - of the barrel

Shelley

167.

CYLINDERS in GALLONS.										
12 Inches Diameter.										
Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60
2	1.04	1.05	1.07	1.09	1.11	1.12	1.14	1.16	1.18	1.20
3	1.56	1.58	1.61	1.63	1.66	1.69	1.71	1.74	1.77	1.80
4	2.08	2.11	2.14	2.18	2.22	2.25	2.28	2.32	2.36	2.40
5	2.06	2.64	2.68	2.73	2.77	2.82	2.86	2.91	2.95	3.00
6	3.12	3.16	3.22	3.27	3.33	3.38	3.43	3.48	3.54	3.60
7	3.64	3.69	3.75	3.82	3.88	3.94	4.01	4.07	4.13	4.20
8	4.16	4.22	4.29	4.36	4.44	4.51	4.58	4.65	4.72	4.80
9	4.68	4.75	4.83	4.91	4.99	5.07	5.15	5.23	5.31	5.40
10	5.20	5.28	5.37	5.46	5.55	5.64	5.73	5.82	5.91	6.00
11	5.72	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60
12	6.24	6.33	6.44	6.55	6.66	6.76	6.87	6.98	7.09	7.20
13	6.76	6.86	6.98	7.09	7.21	7.33	7.44	7.56	7.68	7.80
14	7.28	7.39	7.51	7.64	7.77	7.89	8.02	8.14	8.27	8.40
15	7.80	7.92	8.05	8.19	8.32	8.46	8.59	8.73	8.86	9.00
16	8.32	8.44	8.59	8.73	8.88	9.02	9.16	9.31	9.45	9.60
17	8.84	8.97	9.12	9.28	9.43	9.58	9.74	9.89	10.04	10.20
18	9.36	9.50	9.66	9.82	9.99	10.15	10.31	10.47	10.63	10.80
19	9.88	10.03	10.20	10.37	10.54	10.71	10.88	11.05	11.22	11.40
20	10.40	10.56	10.74	10.92	11.10	11.28	11.46	11.64	11.82	12.00
21	11.02	11.08	11.27	11.46	11.65	11.84	12.03	12.22	12.41	12.60
22	11.44	11.61	11.81	12.01	12.21	12.40	12.60	12.80	13.00	13.20
23	11.96	12.14	12.35	12.55	12.76	12.97	13.17	13.38	13.59	13.80
24	12.48	12.67	12.88	13.10	13.32	13.53	13.75	13.96	14.18	14.40
25	13.00	13.20	13.42	13.65	13.87	14.10	14.32	14.55	14.77	15.00
26	13.52	13.72	13.96	14.19	14.43	14.66	14.89	15.13	15.36	15.60
27	14.04	14.25	14.49	14.74	14.98	15.22	15.47	15.71	15.95	16.20
28	14.56	14.78	15.03	15.28	15.54	15.78	16.04	16.29	16.54	16.80
29	15.08	15.31	15.57	15.83	16.09	16.35	16.61	16.87	17.13	17.40
30	15.60	15.84	16.11	16.38	16.65	16.92	17.19	17.46	17.73	18.00

Area

Set the Gauge length, viz: height on line - inches on line B. If you'll find a Number - full content on line C. to 100 on line D - and which form on line SS - you will

Of Segment a Standing Gaug by -

CYLINDERS

Inches Depth.

Area

CYLINDERS in GALLONS.

13 Inches Diameter.

	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.61	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69
2	1.22	1.23	1.25	1.27	1.29	1.31	1.33	1.35	1.37	1.39
3	1.85	1.85	1.88	1.91	1.94	1.97	2.00	2.03	2.06	2.09
4	2.44	2.47	2.51	2.55	2.59	2.63	2.67	2.70	2.74	2.78
5	3.05	3.09	3.14	3.19	3.24	3.29	3.34	3.38	3.43	3.48
6	3.66	3.71	3.77	3.82	3.88	3.94	4.00	4.06	4.12	4.18
7	4.27	4.33	4.40	4.46	4.53	4.60	4.67	4.73	4.80	4.87
8	4.88	4.95	5.03	5.10	5.18	5.26	5.34	5.41	5.49	5.57
9	5.49	5.57	5.66	5.74	5.83	5.92	6.01	6.09	6.18	6.27
10	6.10	6.19	6.29	6.38	6.48	6.58	6.68	6.77	6.87	6.97
11	6.71	6.80	6.91	7.01	7.12	7.23	7.34	7.44	7.55	7.66
12	7.32	7.42	7.54	7.65	7.77	7.89	8.01	8.12	8.24	8.36
13	7.93	8.04	8.17	8.29	8.42	8.55	8.68	8.80	8.93	9.06
14	8.54	8.66	8.80	8.93	9.07	9.21	9.35	9.47	9.61	9.75
15	9.15	9.28	9.43	9.57	9.72	9.87	10.02	10.15	10.30	10.45
16	9.76	9.90	10.06	10.20	10.36	10.52	10.68	10.83	10.99	11.15
17	10.37	10.52	10.69	10.84	11.01	11.18	11.35	11.50	11.67	11.84
18	10.98	11.14	11.32	11.48	11.66	11.84	12.02	12.18	12.36	12.54
19	11.59	11.76	11.95	12.12	12.31	12.50	12.69	12.86	13.05	13.24
20	12.20	12.38	12.58	12.76	12.96	13.16	13.36	13.54	13.74	13.94
21	12.81	12.99	13.20	13.39	13.60	13.81	14.02	14.21	14.42	14.63
22	13.42	13.61	13.83	14.03	14.25	14.47	14.69	14.89	15.11	15.33
23	14.03	14.23	14.46	14.67	14.90	15.13	15.36	15.57	15.80	16.03
24	14.64	14.85	15.09	15.31	15.55	15.79	16.03	16.24	16.48	16.72
25	15.25	15.47	15.72	15.95	16.20	16.45	16.70	16.92	17.17	17.42
26	15.86	16.09	16.35	16.58	16.84	17.10	17.36	17.60	17.86	18.12
27	16.47	16.71	16.98	17.22	17.49	17.76	18.03	18.27	18.54	18.81
28	17.08	17.33	17.61	17.86	18.14	18.42	18.70	18.95	19.23	19.51
29	17.69	17.95	18.24	18.50	18.79	19.08	19.37	19.63	19.92	20.21
30	18.30	18.57	18.87	19.14	19.44	19.74	20.04	20.31	20.61	20.91

CYLINDERS

[Faint handwritten notes and markings at the bottom of the page, including "B", "C", "D", and "100"]

CYLINDERS in GALLONS.

9

14 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.78	0.79	0.80
2	1.41	1.43	1.45	1.47	1.49	1.51	1.53	1.56	1.58	1.60
3	2.12	2.15	2.18	2.21	2.24	2.27	2.30	2.34	2.37	2.40
4	2.82	2.86	2.91	2.95	2.99	3.03	3.07	3.12	3.16	3.20
5	3.53	3.58	3.64	3.69	3.74	3.79	3.84	3.90	3.95	4.00
6	4.24	4.30	4.36	4.42	4.48	4.55	4.61	4.68	4.74	4.80
7	4.94	5.01	5.09	5.16	5.23	5.31	5.38	5.46	5.53	5.60
8	5.65	5.73	5.82	5.90	5.98	6.07	6.15	6.24	6.32	6.40
9	6.36	6.45	6.55	6.64	6.73	6.83	6.92	7.02	7.11	7.20
10	7.07	7.17	7.28	7.38	7.48	7.59	7.69	7.80	7.91	8.01
11	7.77	7.88	8.00	8.11	8.22	8.34	8.45	8.58	8.70	8.81
12	8.48	8.60	8.73	8.85	8.97	9.10	9.22	9.36	9.49	9.61
13	9.19	9.32	9.46	9.59	9.72	9.86	9.99	10.14	10.28	10.41
14	9.89	10.03	10.19	10.33	10.47	10.62	10.76	10.92	11.07	11.21
15	10.60	10.75	10.92	11.07	11.22	11.38	11.53	11.70	11.86	12.01
16	11.31	11.47	11.64	11.80	11.96	12.14	12.30	12.48	12.65	12.81
17	12.01	12.18	12.37	12.54	12.71	12.90	13.07	13.26	13.44	13.61
18	12.72	12.90	13.10	13.28	13.46	13.66	13.84	14.04	14.23	14.41
19	13.43	13.62	13.83	14.02	14.21	14.42	14.61	14.82	15.02	15.21
20	14.14	14.34	14.56	14.76	14.96	15.18	15.38	15.60	15.82	16.02
21	14.84	15.05	15.28	15.49	15.70	15.93	16.14	16.38	16.61	16.82
22	15.55	15.77	16.01	16.23	16.45	16.69	16.91	17.16	17.40	17.62
23	16.26	16.49	16.74	16.97	17.20	17.45	17.68	17.94	18.19	18.42
24	16.96	17.20	17.47	17.71	17.95	18.21	18.45	18.72	18.98	19.22
25	17.67	17.92	18.20	18.45	18.70	18.97	19.22	19.50	19.77	20.02
26	18.38	18.64	18.92	19.18	19.44	19.73	19.99	20.28	20.56	20.82
27	19.08	19.35	19.65	19.92	20.19	20.49	20.76	21.06	21.35	21.62
28	19.79	20.07	20.38	20.66	20.94	21.25	21.53	21.84	22.14	22.42
29	20.50	20.79	21.11	21.40	21.69	22.01	22.30	22.62	22.93	23.22
30	21.21	21.51	21.84	22.14	22.44	22.77	23.07	23.40	23.73	24.03

Area

B

CYLINDERS

Chapman

CYLINDERS in GALLONS.

15 Inches Diameter.

Area

Depth	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.89	0.90	0.91
2	1.62	1.64	1.66	1.69	1.71	1.73	1.75	1.78	1.80	1.82
3	2.43	2.46	2.50	2.53	2.56	2.60	2.63	2.67	2.70	2.73
4	3.24	3.29	3.33	3.38	3.42	3.46	3.51	3.56	3.60	3.64
5	4.06	4.11	4.17	4.22	4.28	4.33	4.39	4.45	4.50	4.56
6	4.87	4.93	5.00	5.07	5.13	5.20	5.26	5.34	5.40	5.47
7	5.68	5.76	5.83	5.91	5.99	6.06	6.14	6.23	6.30	6.38
8	6.49	6.58	6.67	6.76	6.84	6.93	7.02	7.12	7.20	7.29
9	7.30	7.40	7.50	7.60	7.70	7.80	7.90	8.01	8.10	8.20
10	8.12	8.23	8.34	8.45	8.56	8.67	8.78	8.90	9.01	9.12
11	8.93	9.05	9.17	9.29	9.41	9.53	9.65	9.79	9.91	10.03
12	9.74	9.87	10.00	10.14	10.27	10.40	10.53	10.68	10.81	10.94
13	10.55	10.69	10.84	10.98	11.12	11.27	11.41	11.57	11.71	11.85
14	11.36	11.52	11.67	11.83	11.98	12.13	12.29	12.46	12.61	12.76
15	12.18	12.34	12.51	12.67	12.84	13.00	13.17	13.35	13.51	13.68
16	12.99	13.16	13.34	13.52	13.69	13.87	14.04	14.24	14.41	14.59
17	13.80	13.99	14.17	14.36	14.55	14.73	14.92	15.13	15.31	15.50
18	14.61	14.81	15.01	15.21	15.40	15.60	15.80	16.02	16.21	16.41
19	15.42	15.63	15.84	16.05	16.26	16.47	16.68	16.91	17.11	17.32
20	16.24	16.46	16.68	16.90	17.12	17.34	17.56	17.80	18.02	18.24
21	17.05	17.28	17.51	17.74	17.97	18.20	18.43	18.69	18.92	19.15
22	17.86	18.10	18.34	18.59	18.83	19.07	19.31	19.58	19.82	20.06
23	18.67	18.92	19.18	19.43	19.68	19.94	20.19	20.47	20.72	20.97
24	19.48	19.75	20.01	20.28	20.54	20.80	21.07	21.36	21.62	21.88
25	20.30	20.57	20.85	21.12	21.40	21.67	21.95	22.25	22.52	22.80
26	21.11	21.39	21.68	21.97	22.25	22.54	22.82	23.14	23.42	23.71
27	21.92	22.22	22.51	22.81	23.11	23.40	23.70	24.03	24.32	24.62
28	22.73	23.04	23.35	23.66	23.96	24.27	24.58	24.92	25.22	25.53
29	23.54	23.86	24.18	24.50	24.82	25.14	25.46	25.81	26.12	26.44
30	24.36	24.69	25.02	25.35	25.68	26.01	26.34	26.70	27.03	27.36

CYLINDERS

Index

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CYLINDERS in GALLONS.

11

16 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	0.92	0.93	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.03
2	1.84	1.87	1.89	1.91	1.94	1.96	1.99	2.01	2.03	2.06
3	2.77	2.80	2.84	2.87	2.91	2.94	2.98	3.02	3.05	3.09
4	3.69	3.74	3.78	3.83	3.88	3.93	3.98	4.02	4.07	4.12
5	4.62	4.67	4.73	4.79	4.85	4.91	4.97	5.03	5.09	5.15
6	5.54	5.61	5.68	5.75	5.82	5.89	5.97	6.04	6.11	6.18
7	6.46	6.54	6.62	6.71	6.79	6.88	6.96	7.04	7.13	7.21
8	7.39	7.48	7.57	7.67	7.76	7.86	7.96	8.05	8.15	8.24
9	8.31	8.41	8.52	8.63	8.73	8.84	8.95	9.05	9.17	9.27
10	9.24	9.35	9.47	9.59	9.71	9.83	9.95	10.07	10.19	10.31
11	10.10	10.23	10.41	10.54	10.68	10.81	10.94	11.07	11.20	11.34
12	11.08	11.22	11.36	11.50	11.65	11.79	11.94	12.08	12.22	12.37
13	12.01	12.15	12.31	12.46	12.62	12.77	12.93	13.09	13.24	13.40
14	12.93	13.09	13.25	13.42	13.59	13.76	13.93	14.09	14.26	14.43
15	13.86	14.02	14.20	14.38	14.56	14.74	14.92	15.10	15.28	15.46
16	14.78	14.96	15.15	15.34	15.53	15.72	15.92	16.11	16.30	16.49
17	15.70	15.89	16.09	16.30	16.50	16.71	16.91	17.11	17.32	17.52
18	16.63	16.83	17.04	17.26	17.47	17.69	17.91	18.12	18.34	18.55
19	17.55	17.76	17.99	18.22	18.44	18.67	18.90	19.13	19.36	19.58
20	18.48	18.70	18.94	19.18	19.42	19.66	19.90	20.14	20.38	20.62
21	19.40	19.63	19.88	20.13	20.39	20.64	20.89	21.14	21.39	21.65
22	20.32	20.57	20.83	21.09	21.36	21.62	21.89	22.15	22.41	22.68
23	21.25	21.50	21.78	22.05	22.33	22.60	22.88	23.16	23.43	23.71
24	22.17	22.44	22.72	23.01	23.30	23.59	23.88	24.16	24.45	24.74
25	23.10	23.37	23.67	23.97	24.27	24.57	24.87	25.17	25.47	25.77
26	24.02	24.31	24.62	24.93	25.24	25.55	25.87	26.18	26.49	26.80
27	24.94	25.24	25.56	25.89	26.21	26.54	26.86	27.18	27.51	27.83
28	25.87	26.18	26.51	26.85	27.18	27.52	27.86	28.19	28.53	28.86
29	26.79	27.11	27.46	27.81	28.15	28.50	28.85	29.20	29.55	29.89
30	27.72	28.05	28.41	28.77	29.13	29.49	29.85	30.21	30.57	30.93

Area

B 2

CYLINDERS

inches

CYLINDERS in GALLONS.

17 Inches Diameter.

Area

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.04	1.05	1.06	1.08	1.09	1.10	1.11	1.13	1.14	1.15
2	2.08	2.11	2.13	2.16	2.18	2.21	2.23	2.26	2.28	2.31
3	3.12	3.16	3.20	3.24	3.27	3.31	3.35	3.39	3.42	3.46
4	4.17	4.22	4.27	4.32	4.37	4.42	4.47	4.52	4.57	4.62
5	5.21	5.27	5.34	5.40	5.46	5.52	5.59	5.65	5.71	5.78
6	6.25	6.33	6.40	6.48	6.55	6.63	6.70	6.78	6.85	6.93
7	7.30	7.38	7.47	7.56	7.65	7.73	7.82	7.91	8.00	8.09
8	8.34	8.44	8.54	8.64	8.74	8.84	8.94	9.04	9.14	9.24
9	9.38	9.49	9.61	9.72	9.83	9.94	10.06	10.17	10.28	10.40
10	10.43	10.55	10.68	10.80	10.93	11.05	11.18	11.31	11.43	11.56
11	11.47	11.60	11.74	11.88	12.02	12.15	12.29	12.44	12.57	12.71
12	12.51	12.66	12.81	12.96	13.11	13.26	13.41	13.57	13.71	13.87
13	13.55	13.71	13.88	14.04	14.20	14.36	14.53	14.70	14.85	15.02
14	14.60	14.77	14.95	15.12	15.30	15.47	15.65	15.83	16.00	16.18
15	15.64	15.82	16.02	16.20	16.39	16.57	16.77	16.96	17.14	17.34
16	16.68	16.88	17.08	17.28	17.48	17.68	17.88	18.09	18.28	18.49
17	17.73	17.93	18.15	18.38	18.58	18.78	19.00	19.22	19.43	19.65
18	18.77	18.99	19.22	19.44	19.67	19.89	20.12	20.35	20.57	20.80
19	19.81	20.04	20.29	20.52	20.76	20.99	21.24	21.48	21.71	21.96
20	20.86	21.10	21.36	21.60	21.86	22.10	22.36	22.62	22.86	23.12
21	21.90	22.15	22.42	22.68	22.95	23.20	23.47	23.75	24.00	24.27
22	22.94	23.21	23.49	23.76	24.04	24.31	24.59	24.88	25.14	25.43
23	23.98	24.26	24.56	24.84	25.13	25.41	25.71	26.01	26.28	26.58
24	25.03	25.32	25.63	25.92	26.23	26.52	26.83	27.14	27.43	27.74
25	26.07	26.37	26.70	27.00	27.32	27.62	27.95	28.27	28.57	28.90
26	27.11	27.43	27.76	28.08	28.41	28.73	29.06	29.40	29.71	30.05
27	28.16	28.48	28.83	29.16	29.51	29.83	30.18	30.53	30.86	31.21
28	29.20	29.54	29.90	30.24	30.60	30.94	31.30	31.66	32.00	32.36
29	30.24	30.59	30.97	31.32	31.69	32.04	32.42	32.79	33.14	33.52
30	31.29	31.65	32.04	32.40	32.79	33.15	33.54	33.93	34.29	34.68

CYLINDERS

CYLINDERS in GALLONS.

13

18 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.16	1.18	1.19	1.20	1.22	1.23	1.24	1.26	1.27	1.28
2	2.33	2.36	2.39	2.41	2.44	2.47	2.49	2.52	2.55	2.57
3	3.50	3.54	3.58	3.62	3.66	3.70	3.74	3.78	3.82	3.86
4	4.67	4.72	4.78	4.83	4.88	4.94	4.99	5.04	5.10	5.15
5	5.84	5.91	5.97	6.04	6.11	6.17	6.24	6.31	6.38	6.44
6	7.01	7.09	7.17	7.25	7.33	7.41	7.49	7.57	7.65	7.73
7	8.18	8.27	8.36	8.46	8.55	8.64	8.74	8.83	8.93	9.02
8	9.35	9.45	9.56	9.67	9.77	9.88	9.99	10.09	10.20	10.31
9	10.52	10.63	10.75	10.88	10.99	11.11	11.24	11.35	11.48	11.60
10	11.69	11.82	11.95	12.09	12.22	12.35	12.49	12.62	12.76	12.89
11	12.85	13.00	13.14	13.29	13.44	13.58	13.73	13.88	14.03	14.17
12	14.02	14.18	14.34	14.50	14.66	14.82	14.98	15.14	15.31	15.46
13	15.19	15.36	15.53	15.71	15.88	16.05	16.23	16.40	16.58	16.75
14	16.36	16.54	16.73	16.92	17.10	17.29	17.48	17.66	17.86	18.04
15	17.53	17.73	17.92	18.13	18.33	18.52	18.73	18.93	19.14	19.33
16	18.70	18.91	19.12	19.34	19.55	19.76	19.98	20.19	20.41	20.62
17	19.87	20.09	20.31	20.55	20.77	20.99	21.23	21.45	21.69	21.91
18	21.04	21.27	21.51	21.76	21.99	22.23	22.48	22.71	22.96	23.20
19	22.21	22.45	22.70	22.97	23.21	23.46	23.73	23.97	24.24	24.49
20	23.38	23.64	23.90	24.18	24.44	24.70	24.98	25.24	25.52	25.78
21	24.54	24.82	25.09	25.38	25.66	25.93	26.22	26.50	26.79	27.06
22	25.71	26.00	26.29	26.59	26.88	27.17	27.47	27.76	28.07	28.35
23	26.88	27.18	27.48	27.80	28.10	28.40	28.72	29.02	29.34	29.64
24	28.05	28.36	28.68	29.01	29.32	29.64	29.97	30.28	30.62	30.93
25	29.22	29.55	29.87	30.22	30.55	30.87	31.22	31.55	31.90	32.22
26	30.39	30.73	31.07	31.43	31.77	32.11	32.47	32.81	33.17	33.51
27	31.56	31.91	32.26	32.64	32.99	33.34	33.72	34.07	34.45	34.80
28	32.73	33.09	33.46	33.85	34.21	34.58	34.97	35.33	35.72	36.09
29	33.90	34.27	34.65	35.06	35.43	35.81	36.22	36.59	37.00	37.38
30	35.07	35.46	35.85	36.27	36.66	37.05	37.47	37.86	38.28	38.67

Area

CYLINDERS

CYLINDERS in GALLONS.

19 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.30	1.31	1.33	1.34	1.35	1.37	1.38	1.40	1.41	1.42
2	2.60	2.63	2.66	2.68	2.71	2.74	2.77	2.80	2.83	2.85
3	3.90	3.95	3.99	4.03	4.07	4.11	4.15	4.20	4.24	4.28
4	5.21	5.26	5.32	5.37	5.43	5.48	5.54	5.60	5.66	5.71
5	6.51	6.58	6.65	6.72	6.79	6.86	6.93	7.00	7.07	7.14
6	7.81	7.90	7.98	8.06	8.14	8.23	8.31	8.40	8.49	8.57
7	9.12	9.21	9.31	9.40	9.50	9.60	9.7	9.80	9.90	10.00
8	10.42	10.53	10.64	10.75	10.86	10.97	11.08	11.20	11.32	11.43
9	11.72	11.85	11.97	12.09	12.22	12.34	12.47	12.60	12.73	12.86
10	13.03	13.17	13.30	13.44	13.58	13.72	13.86	14.01	14.15	14.29
11	14.33	14.48	14.63	14.78	14.93	15.09	15.24	15.41	15.56	15.71
12	15.63	15.80	15.96	16.12	16.29	16.46	16.63	16.81	16.98	17.14
13	16.93	17.12	17.29	17.47	17.65	17.83	18.01	18.21	18.39	18.57
14	18.24	18.43	18.62	18.81	19.01	19.20	19.40	19.61	19.81	20.00
15	19.54	19.75	19.95	20.16	20.37	20.58	20.79	21.01	21.22	21.43
16	20.84	21.07	21.28	21.50	21.72	21.95	22.17	22.41	22.64	22.86
17	22.15	22.38	22.61	22.84	23.08	23.32	23.56	23.81	24.05	24.29
18	23.45	23.70	23.94	24.19	24.44	24.69	24.94	25.21	25.47	25.72
19	24.75	25.02	25.27	25.53	25.80	26.06	26.33	26.61	26.88	27.15
20	26.06	26.34	26.60	26.88	27.16	27.44	27.72	28.02	28.30	28.58
21	27.36	27.65	27.93	28.22	28.51	28.81	29.10	29.42	29.71	30.00
22	28.66	28.97	29.26	29.56	29.87	30.18	30.49	30.82	31.13	31.43
23	29.96	30.29	30.59	30.91	31.23	31.55	31.87	32.22	32.54	32.86
24	31.27	31.60	31.92	32.25	32.59	32.92	33.26	33.62	33.96	34.29
25	32.57	32.92	33.25	33.60	33.95	34.30	34.65	35.02	35.37	35.72
26	33.87	34.24	34.58	34.94	35.30	35.67	36.03	36.42	36.79	37.15
27	35.18	35.55	35.91	36.28	36.66	37.04	37.42	37.82	38.20	38.58
28	36.48	36.87	37.24	37.63	38.02	38.41	38.80	39.22	39.62	40.01
29	37.78	38.19	38.57	38.97	39.38	39.78	40.19	40.62	41.03	41.44
30	39.09	39.50	39.90	40.32	40.74	41.16	41.58	42.03	42.45	42.87

CYLINDERS

Inches

175.

CYLINDERS in GALLONS.										
20 Inches Diameter.										
Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.44	1.45	1.47	1.48	1.50	1.51	1.53	1.54	1.56	1.57
2	2.88	2.91	2.94	2.97	3.00	3.03	3.06	3.09	3.12	3.15
3	4.33	4.37	4.41	4.46	4.50	4.55	4.59	4.64	4.68	4.72
4	5.77	5.83	5.89	5.94	6.00	6.06	6.12	6.18	6.24	6.30
5	7.22	7.29	7.36	7.43	7.51	7.58	7.66	7.73	7.81	7.88
6	8.66	8.74	8.83	8.92	9.01	9.10	9.19	9.28	9.37	9.45
7	10.10	10.20	10.31	10.40	10.51	10.61	10.72	10.82	10.93	11.03
8	11.55	11.66	11.78	11.89	12.01	12.13	12.25	12.37	12.49	12.60
9	12.99	13.12	13.25	13.38	13.51	13.65	13.78	13.92	14.05	14.18
10	14.44	14.58	14.73	14.87	15.02	15.17	15.32	15.47	15.62	15.76
11	15.88	16.03	16.20	16.35	16.52	16.68	16.85	17.01	17.18	17.33
12	17.32	17.49	17.67	17.84	18.02	18.20	18.38	18.56	18.74	18.91
13	18.77	18.95	19.14	19.33	19.52	19.72	19.91	20.11	20.30	20.48
14	20.21	20.41	20.62	20.81	21.02	21.23	21.44	21.65	21.86	22.06
15	21.66	21.87	22.09	22.30	22.53	22.75	22.98	23.20	23.43	23.64
16	23.10	23.32	23.56	23.79	24.03	24.27	24.51	24.75	24.99	25.21
17	24.54	24.78	25.04	25.27	25.53	25.78	26.04	26.29	26.55	26.79
18	25.99	26.24	26.51	26.76	27.03	27.30	27.57	27.84	28.11	28.36
19	27.43	27.70	27.98	28.25	28.53	28.82	29.10	29.39	29.67	29.94
20	28.88	29.16	29.46	29.74	30.04	30.34	30.64	30.94	31.24	31.52
21	30.32	30.61	30.93	31.22	31.54	31.85	32.17	32.48	32.80	33.09
22	31.76	32.07	32.40	32.71	33.04	33.37	33.70	34.03	34.36	34.67
23	33.21	33.53	33.87	34.20	34.54	34.89	35.23	35.58	35.92	36.24
24	34.65	34.99	35.35	35.68	36.04	36.40	36.76	37.12	37.48	37.82
25	36.10	36.45	36.82	37.17	37.55	37.92	38.30	38.67	39.05	39.40
26	37.54	37.90	38.29	38.66	39.05	39.44	39.83	40.22	40.61	40.97
27	38.98	39.36	39.77	40.14	40.55	40.95	41.36	41.79	42.17	42.55
28	40.43	40.82	41.24	41.63	42.05	42.47	42.89	43.31	43.73	44.12
29	41.87	42.28	42.71	43.12	43.55	43.99	44.42	44.86	45.29	45.70
30	43.32	43.74	44.19	44.61	45.06	45.51	45.96	46.41	46.86	47.28

Area

CYLINDERS

CYLINDERS in GALLONS.

21 Inches Diameter.

Area

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.59	1.60	1.62	1.63	1.65	1.66	1.68	1.70	1.71	1.73
2	3.18	3.21	3.24	3.27	3.30	3.33	3.36	3.40	3.43	3.46
3	4.77	4.82	4.86	4.91	4.95	5.00	5.05	5.10	5.14	5.19
4	6.36	6.42	6.48	6.54	6.61	6.67	6.73	6.80	6.86	6.92
5	7.96	8.03	8.11	8.18	8.26	8.34	8.42	8.50	8.57	8.65
6	9.55	9.64	9.73	9.82	9.91	10.00	10.10	10.20	10.29	10.38
7	11.14	11.24	11.35	11.45	11.57	11.67	11.78	11.90	12.00	12.11
8	12.73	12.85	12.97	13.09	13.22	13.34	13.47	13.60	13.72	13.84
9	14.32	14.46	14.59	14.73	14.87	15.01	15.15	15.30	15.43	15.57
10	15.92	16.07	16.22	16.37	16.53	16.68	16.84	17.00	17.15	17.31
11	17.51	17.67	17.84	18.00	18.18	18.34	18.52	18.70	18.86	19.04
12	19.10	19.28	19.46	19.64	19.83	20.01	20.20	20.40	20.58	20.77
13	20.69	20.89	21.08	21.28	21.48	21.68	21.89	22.10	22.29	22.50
14	22.28	22.49	22.70	22.91	23.14	23.35	23.57	23.80	24.01	24.23
15	23.88	24.10	24.33	24.55	24.79	25.02	25.26	25.50	25.72	25.96
16	25.47	25.71	25.95	26.19	26.44	26.68	26.94	27.20	27.44	27.69
17	27.06	27.31	27.58	27.82	28.10	28.35	28.62	28.90	29.15	29.42
18	28.65	28.92	29.19	29.46	29.75	30.02	30.31	30.60	30.87	31.15
19	30.24	30.53	30.81	31.10	31.40	31.69	31.99	32.30	32.58	32.86
20	31.84	32.14	32.44	32.74	33.06	33.36	33.68	34.00	34.30	34.62
21	33.43	33.74	34.06	34.37	34.71	35.02	35.36	35.70	36.01	36.31
22	35.02	35.35	35.68	36.01	36.36	36.69	37.04	37.40	37.73	38.08
23	36.61	36.96	37.30	37.65	38.01	38.36	38.73	39.10	39.44	39.81
24	38.20	38.56	38.92	39.28	39.67	40.03	40.41	40.80	41.16	41.54
25	39.80	40.17	40.55	40.92	41.32	41.70	42.10	42.50	42.87	43.27
26	41.39	41.78	42.17	42.56	42.97	43.36	43.78	44.20	44.59	45.00
27	42.98	43.38	43.79	44.19	44.63	45.03	45.46	45.90	46.30	46.73
28	44.57	44.99	45.41	45.83	46.28	46.70	47.15	47.60	48.02	48.46
29	46.16	46.60	47.03	47.47	47.93	48.37	48.83	49.30	49.73	50.19
30	47.76	48.21	48.66	49.11	49.59	50.04	50.52	51.00	51.45	51.93

CYLINDERS

Indica

177.

CYLINDERS in GALLONS.

17

22 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.74	1.76	1.77	1.79	1.81	1.82	1.84	1.86	1.87	1.89
2	3.49	3.52	3.55	3.59	3.62	3.65	3.68	3.72	3.75	3.78
3	5.24	5.28	5.33	5.38	5.43	5.48	5.52	5.58	5.62	5.67
4	6.98	7.05	7.11	7.18	7.24	7.30	7.37	7.44	7.50	7.57
5	8.73	8.81	8.89	8.97	9.05	9.13	9.21	9.30	9.38	9.46
6	10.48	10.57	10.67	10.77	10.86	10.96	11.05	11.16	11.25	11.35
7	12.22	12.34	12.45	12.56	12.67	12.78	12.90	13.02	13.13	13.25
8	13.97	14.10	14.23	14.36	14.48	14.61	14.74	14.88	15.00	15.14
9	15.71	15.86	16.01	16.15	16.29	16.44	16.58	16.74	16.88	17.03
10	17.47	17.63	17.79	17.95	18.11	18.27	18.43	18.60	18.76	18.93
11	19.21	19.39	19.56	19.74	19.92	20.09	20.27	20.46	20.63	20.82
12	20.96	21.15	21.34	21.54	21.73	21.92	22.11	22.32	22.51	22.71
13	22.71	22.91	23.12	23.33	23.54	23.75	23.95	24.18	24.38	24.60
14	24.45	24.68	24.90	25.13	25.35	25.57	25.80	26.04	26.26	26.50
15	26.20	26.44	26.68	26.92	27.16	27.40	27.64	27.90	28.14	28.39
16	27.95	28.20	28.46	28.72	28.97	29.23	29.48	29.76	30.01	30.28
17	29.69	29.97	30.24	30.51	30.78	31.05	31.33	31.62	31.89	32.18
18	31.44	31.73	32.02	32.31	32.59	32.88	33.17	33.48	33.76	34.07
19	33.19	33.49	33.80	34.10	34.40	34.71	35.01	35.34	35.64	35.96
20	34.94	35.26	35.58	35.90	36.22	36.54	36.86	37.20	37.52	37.86
21	36.68	37.02	37.35	37.69	38.03	38.36	38.70	39.06	39.39	39.75
22	38.43	38.78	39.13	39.49	39.84	40.19	40.54	40.92	41.27	41.64
23	40.18	40.54	40.91	41.28	41.65	42.02	42.38	42.78	43.14	43.53
24	41.92	42.31	42.69	43.08	43.46	43.84	44.23	44.64	45.02	45.43
25	43.67	44.07	44.47	44.87	45.27	45.67	46.07	46.50	46.90	47.32
26	45.42	45.83	46.25	46.67	47.08	47.50	47.91	48.36	48.77	49.21
27	47.16	47.60	48.03	48.46	48.89	49.32	49.76	50.22	50.65	51.11
28	48.91	49.36	49.81	50.26	50.70	51.15	51.60	52.08	52.52	53.00
29	50.66	51.12	51.59	52.05	52.51	52.98	53.44	53.94	54.40	54.89
30	52.41	52.89	53.37	53.85	54.33	54.81	55.29	55.80	56.28	56.79

Area

C

CYLINDERS

Depth

CYLINDERS in GALLONS.

23 Inches Diameter.

Area

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	1.90	1.92	1.94	1.96	1.97	1.99	2.01	2.02	2.04	2.06
2	3.81	3.85	3.88	3.92	3.95	3.98	4.02	4.05	4.09	4.12
3	5.72	5.77	5.82	5.88	5.92	5.97	6.03	6.08	6.13	6.18
4	7.63	7.70	7.77	7.84	7.90	7.97	8.04	8.11	8.18	8.24
5	9.54	9.63	9.71	9.80	9.88	9.96	10.05	10.14	10.22	10.31
6	11.45	11.55	11.65	11.76	11.85	11.95	12.06	12.16	12.27	12.37
7	13.36	13.48	13.60	13.72	13.83	13.95	14.07	14.19	14.31	14.43
8	15.27	15.40	15.54	15.68	15.80	15.94	16.08	16.22	16.36	16.49
9	17.18	17.33	17.48	17.64	17.78	17.93	18.09	18.25	18.40	18.55
10	19.09	19.26	19.43	19.60	19.76	19.93	20.10	20.28	20.45	20.62
11	20.99	21.18	21.37	21.56	21.73	21.92	22.11	22.30	22.49	22.68
12	22.90	23.11	23.31	23.52	23.71	23.91	24.12	24.33	24.54	24.74
13	24.81	25.03	25.25	25.48	25.68	25.90	26.13	26.36	26.58	26.80
14	26.72	26.96	27.20	27.44	27.66	27.90	28.14	28.39	28.63	28.86
15	28.63	28.89	29.14	29.40	29.64	29.89	30.15	30.42	30.67	30.93
16	30.54	30.81	31.08	31.36	31.61	31.88	32.16	32.44	32.72	32.99
17	32.45	32.74	33.03	33.32	33.59	33.88	34.17	34.47	34.76	35.05
18	34.36	34.66	34.97	35.28	35.56	35.87	36.18	36.50	36.81	37.11
19	36.27	36.59	36.91	37.24	37.54	37.86	38.19	38.53	38.85	39.17
20	38.18	38.52	38.86	39.20	39.52	39.86	40.20	40.56	40.90	41.24
21	40.08	40.44	40.80	41.16	41.49	41.85	42.21	42.58	42.94	43.30
22	41.99	42.37	42.74	43.12	43.47	43.84	44.22	44.61	44.99	45.36
23	43.90	44.29	44.68	45.08	45.44	45.83	46.23	46.64	47.03	47.42
24	45.81	46.22	46.63	47.04	47.42	47.83	48.24	48.67	49.08	49.48
25	47.72	48.15	48.57	49.00	49.40	49.82	50.25	50.70	51.12	51.55
26	49.63	50.07	50.51	50.96	51.37	51.81	52.26	52.72	53.17	53.61
27	51.54	52.00	52.46	52.92	53.35	53.81	54.27	54.75	55.21	55.67
28	53.45	53.92	54.40	54.88	55.32	55.80	56.28	56.78	57.26	57.73
29	55.36	55.85	56.34	56.84	57.30	57.79	58.29	58.81	59.30	59.79
30	57.27	57.78	58.29	58.80	59.28	59.79	60.30	60.84	61.35	61.86

CYLINDERs

Induct.

179.

CYLINDERS in GALLONS.

19

24 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	2.07	2.09	2.11	2.13	2.14	2.16	2.18	2.20	2.22	2.23
2	4.15	4.19	4.22	4.26	4.29	4.33	4.36	4.40	4.44	4.47
3	6.23	6.28	6.34	6.39	6.44	6.50	6.55	6.60	6.66	6.71
4	8.31	8.38	8.45	8.52	8.59	8.66	8.73	8.80	8.88	8.95
5	10.39	10.48	10.57	10.65	10.74	10.83	10.92	11.01	11.10	11.19
6	12.47	12.57	12.68	12.78	12.89	13.00	13.10	13.21	13.32	13.42
7	14.55	14.67	14.79	14.91	15.04	15.16	15.28	15.41	15.54	15.66
8	16.63	16.76	16.91	17.04	17.19	17.33	17.47	17.61	17.76	17.90
9	18.71	18.86	19.02	19.17	19.34	19.50	19.65	19.81	19.98	20.14
10	20.79	20.96	21.14	21.31	21.49	21.67	21.84	22.02	22.20	22.38
11	22.86	23.05	23.25	23.44	23.63	23.83	24.02	24.22	24.42	24.61
12	24.94	25.15	25.36	25.57	25.78	26.00	26.20	26.42	26.64	26.85
13	27.02	27.24	27.48	27.70	27.93	28.17	28.39	28.62	28.86	29.09
14	29.10	29.34	29.59	29.83	30.08	30.33	30.57	30.82	31.08	31.33
15	31.18	31.44	31.71	31.96	32.23	32.50	32.76	33.03	33.30	33.57
16	33.26	33.53	33.82	34.09	34.38	34.67	34.94	35.23	35.52	35.80
17	35.34	35.63	35.93	36.22	36.53	36.83	37.12	37.43	37.74	38.04
18	37.42	37.72	38.05	38.35	38.68	39.00	39.31	39.63	39.96	40.28
19	39.50	39.82	40.16	40.48	40.83	41.17	41.49	41.83	42.18	42.52
20	41.58	41.92	42.28	42.62	42.98	43.34	43.68	44.04	44.40	44.76
21	43.65	44.01	44.39	44.75	45.12	45.50	45.86	46.24	46.62	46.99
22	45.73	46.11	46.50	46.88	47.27	47.67	48.04	48.44	48.84	49.23
23	47.81	48.20	48.62	49.01	49.42	49.84	50.23	50.64	51.06	51.47
24	49.89	50.30	50.73	51.14	51.57	52.00	52.41	52.84	53.28	53.71
25	51.97	52.40	52.85	53.27	53.72	54.17	54.60	55.05	55.50	55.95
26	54.04	54.49	54.96	55.40	55.87	56.34	56.78	57.25	57.72	58.18
27	56.13	56.59	57.07	57.53	58.02	58.50	58.96	59.45	59.94	60.42
28	58.21	58.68	59.19	59.66	60.17	60.67	61.15	61.65	62.16	62.66
29	60.29	60.78	61.30	61.79	62.32	62.84	63.33	63.85	64.38	64.90
30	62.37	62.88	63.42	63.93	64.47	65.01	65.52	66.06	66.60	67.14

Area

C 2

CYLINDERS

CYLINDERS in GALLONS.

25 Inches Diameter.

Depth	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	2.25	2.27	2.29	2.31	2.32	2.34	2.36	2.38	2.40	2.42
2	4.51	4.54	4.58	4.62	4.64	4.69	4.73	4.76	4.80	4.84
3	6.76	6.82	6.87	6.93	6.98	7.04	7.09	7.15	7.20	7.26
4	9.02	9.09	9.16	9.24	9.31	9.38	9.46	9.53	9.61	9.68
5	11.28	11.37	11.46	11.55	11.64	11.73	11.83	11.92	12.01	12.10
6	13.53	13.64	13.75	13.86	13.97	14.08	14.19	14.30	14.41	14.52
7	15.79	15.91	16.04	16.17	16.30	16.42	16.56	16.68	16.82	16.94
8	18.04	18.19	18.33	18.48	18.63	18.77	18.92	19.07	19.22	19.36
9	20.30	20.46	20.62	20.79	20.96	21.12	21.29	21.45	21.62	21.78
10	22.56	22.74	22.92	23.10	23.29	23.47	23.66	23.84	24.03	24.21
11	24.81	25.01	25.21	25.41	25.61	25.81	26.02	26.22	26.43	26.63
12	27.07	27.28	27.50	27.72	27.94	28.16	28.39	28.60	28.83	29.05
13	29.32	29.56	29.79	30.03	30.27	30.51	30.75	30.99	31.23	31.47
14	31.58	31.83	32.08	32.34	32.60	32.85	33.12	33.37	33.64	33.89
15	33.84	34.11	34.38	34.65	34.93	35.20	35.49	35.76	36.04	36.31
16	36.09	36.38	36.67	36.96	37.26	37.55	37.85	38.14	38.44	38.73
17	38.35	38.65	38.96	39.27	39.59	39.89	40.22	40.52	40.85	41.15
18	40.60	40.93	41.25	41.58	41.92	42.24	42.58	42.91	43.25	43.57
19	42.86	43.20	43.54	43.89	44.25	44.59	44.95	45.29	45.65	45.99
20	45.12	45.48	45.84	46.20	46.58	46.94	47.32	47.68	48.06	48.42
21	47.37	47.75	48.13	48.51	48.90	49.28	49.68	50.06	50.46	50.84
22	49.63	50.02	50.42	50.82	51.23	51.63	52.05	52.44	52.86	53.26
23	51.88	52.30	52.71	53.13	53.56	53.98	54.41	54.83	55.26	55.68
24	54.14	54.57	55.00	55.44	55.89	56.32	56.78	57.21	57.67	58.10
25	56.40	56.85	57.30	57.77	58.22	58.67	59.15	59.60	60.07	60.52
26	58.65	59.12	59.59	60.06	60.55	61.02	61.51	61.98	62.47	62.94
27	60.91	61.39	61.88	62.37	62.88	63.36	63.88	64.36	64.88	65.36
28	63.16	63.67	64.17	64.68	65.21	65.71	66.24	66.75	67.28	67.78
29	65.42	65.94	66.46	66.99	67.54	68.06	68.61	69.13	69.68	70.20
30	67.68	68.22	68.76	69.30	69.87	70.41	70.98	71.52	72.09	72.63

CYLINDERS

Inches

CYLINDERS in GALLONS.										21
26 Inches Diameter.										
Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	2.44	2.45	2.47	2.49	2.51	2.53	2.55	2.57	2.59	2.61
2	4.88	4.91	4.95	4.99	5.03	5.07	5.10	5.14	5.18	5.22
3	7.32	7.37	7.43	7.49	7.54	7.60	7.66	7.71	7.77	7.83
4	9.76	9.83	9.91	9.98	10.06	10.14	10.21	10.29	10.37	10.44
5	12.10	12.20	12.30	12.48	12.58	12.67	12.77	12.86	12.96	13.06
6	14.64	14.75	14.86	14.98	15.09	15.21	15.32	15.43	15.55	15.67
7	17.08	17.21	17.34	17.47	17.61	17.74	17.87	18.01	18.15	18.28
8	19.52	19.67	19.82	19.97	20.12	20.28	20.43	20.58	20.74	20.89
9	21.96	22.13	22.30	22.47	22.64	22.81	22.98	23.15	23.33	23.50
10	24.40	24.59	24.78	24.97	25.16	25.35	25.54	25.73	25.93	26.12
11	26.84	27.04	27.25	27.46	27.67	27.88	28.09	28.30	28.52	28.73
12	29.28	29.50	29.73	29.96	30.19	30.42	30.64	30.87	31.11	31.34
13	31.72	31.96	32.21	32.46	32.70	32.95	33.20	33.44	33.70	33.95
14	34.16	34.42	34.69	34.95	35.22	35.49	35.75	36.02	36.30	36.56
15	36.60	36.88	37.17	37.45	37.74	38.02	38.31	38.59	38.89	39.18
16	39.04	39.34	39.64	39.95	40.25	40.56	40.86	41.16	41.48	41.79
17	41.48	41.80	42.12	42.44	42.77	43.09	43.41	43.74	44.08	44.40
18	43.92	44.26	44.60	44.94	45.28	45.63	45.97	46.31	46.67	47.01
19	46.36	46.72	47.08	47.44	47.80	48.16	48.52	48.88	49.26	49.62
20	48.80	49.18	49.56	49.94	50.32	50.70	51.08	51.46	51.86	52.24
21	51.24	51.63	52.03	52.43	52.83	53.23	53.63	54.03	54.45	54.85
22	53.68	54.09	54.51	54.93	55.35	55.77	56.18	56.60	57.04	57.46
23	56.12	56.55	56.99	57.43	57.86	58.30	58.74	59.17	59.63	60.07
24	58.56	59.01	59.47	59.92	60.38	60.84	61.29	61.75	62.23	62.68
25	61.00	61.47	61.95	62.42	62.90	63.37	63.85	64.32	64.82	65.30
26	63.44	63.93	64.42	64.92	65.41	65.91	66.40	66.89	67.41	67.91
27	65.88	66.39	66.90	67.41	67.93	68.44	68.95	69.47	70.01	70.52
28	68.32	68.85	69.38	69.91	70.44	70.98	71.51	72.04	72.60	73.13
29	70.76	71.31	71.86	72.41	72.96	73.51	74.06	74.61	75.19	75.74
30	73.20	73.77	74.34	74.91	75.48	76.05	76.62	77.19	77.79	78.36
CYLINDERS										

Area

CYLINDERS in GALLONS.

27 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	2.63	2.65	2.67	2.69	2.71	2.73	2.75	2.77	2.79	2.81
2	5.26	5.30	5.34	5.38	5.42	5.46	5.50	5.54	5.58	5.62
3	7.89	7.95	8.01	8.07	8.13	8.19	8.25	8.31	8.37	8.43
4	10.52	10.60	10.68	10.76	10.84	10.92	11.00	11.08	11.16	11.24
5	13.15	13.25	13.35	13.45	13.55	13.65	13.75	13.85	13.95	14.05
6	15.78	15.90	16.02	16.14	16.26	16.38	16.50	16.62	16.74	16.86
7	18.41	18.55	18.69	18.83	18.97	19.11	19.25	19.39	19.53	19.67
8	21.04	21.20	21.36	21.52	21.68	21.84	22.00	22.16	22.32	22.48
9	23.67	23.85	24.03	24.21	24.39	24.57	24.75	24.93	25.11	25.29
10	26.31	26.51	26.71	26.90	27.10	27.30	27.50	27.70	27.90	28.10
11	28.94	29.16	29.38	29.59	29.81	30.03	30.25	30.47	30.69	30.91
12	31.57	31.81	32.05	32.28	32.52	32.76	33.00	33.24	33.48	33.72
13	34.20	34.46	34.72	34.97	35.23	35.49	35.75	36.01	36.27	36.53
14	36.83	37.11	37.39	37.66	37.94	38.22	38.50	38.78	39.06	39.34
15	39.46	39.76	40.06	40.35	40.65	40.95	41.25	41.55	41.85	42.15
16	42.09	42.41	42.73	43.04	43.36	43.68	44.00	44.32	44.64	44.96
17	44.72	45.06	45.40	45.73	46.07	46.41	46.75	47.09	47.43	47.77
18	47.35	47.71	48.07	48.42	48.78	49.14	49.50	49.86	50.22	50.58
19	49.98	50.36	50.74	51.11	51.49	51.87	52.25	52.63	53.01	53.39
20	52.62	53.02	53.42	53.80	54.20	54.60	55.00	55.40	55.80	56.20
21	55.25	55.67	56.09	56.49	56.91	57.33	57.75	58.17	58.59	59.01
22	57.88	58.32	58.76	59.18	59.62	60.06	60.50	60.94	61.38	61.82
23	60.51	60.97	61.43	61.87	62.33	62.79	63.25	63.71	64.17	64.63
24	63.14	63.62	64.10	64.56	65.04	65.52	66.00	66.48	66.96	67.44
25	65.76	66.27	66.77	67.25	67.75	68.25	68.75	69.25	69.75	70.25
26	68.40	68.92	69.44	69.94	70.46	70.96	71.50	72.02	72.54	73.06
27	71.03	71.57	72.11	72.63	73.17	73.71	74.25	74.79	75.33	75.87
28	73.66	74.22	74.78	75.32	75.88	76.44	77.00	77.56	78.12	78.68
29	76.29	76.87	77.45	78.01	78.59	79.17	79.75	80.33	80.91	81.49
30	78.93	79.53	80.13	80.70	81.30	81.90	82.50	83.10	83.70	84.30

CYLINDERS

Area

Depth

inches

183

CYLINDERS in GALLONS.

23

28 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	2.83	2.85	2.87	2.89	2.91	2.93	2.95	2.97	2.99	3.01
2	5.66	5.70	5.74	5.78	5.82	5.86	5.90	5.94	5.98	6.03
3	8.49	8.55	8.61	8.67	8.73	8.79	8.85	8.91	8.98	9.04
4	11.32	11.40	11.48	11.56	11.64	11.72	11.81	11.89	11.97	12.06
5	14.15	14.25	14.35	14.45	14.55	14.66	14.76	14.86	14.97	15.07
6	16.98	17.10	17.22	17.34	17.46	17.59	17.71	17.83	17.96	18.09
7	19.71	19.95	20.09	20.23	20.37	20.52	20.67	20.81	20.95	21.10
8	22.64	22.80	22.96	23.12	23.28	23.45	23.62	23.78	23.95	24.12
9	25.47	25.65	25.83	26.01	26.19	26.38	26.57	26.75	26.94	27.13
10	28.30	28.50	28.71	28.91	29.11	29.32	29.53	29.73	29.94	30.15
11	31.13	31.35	31.58	31.80	32.02	32.25	32.48	32.70	32.93	33.16
12	33.96	34.20	34.45	34.69	34.93	35.18	35.43	35.67	35.92	36.18
13	36.79	37.05	37.32	37.58	37.84	38.11	38.38	38.64	38.92	39.19
14	39.62	39.90	40.19	40.47	40.75	41.04	41.34	41.62	41.91	42.21
15	42.45	42.75	43.06	43.36	43.66	43.98	44.29	44.59	44.91	45.22
16	45.28	45.60	45.93	46.25	46.57	46.91	47.24	47.56	47.90	48.24
17	48.11	48.45	48.80	49.14	49.48	49.84	50.20	50.54	50.89	51.25
18	50.94	51.30	51.67	52.03	52.39	52.77	53.15	53.51	53.89	54.27
19	53.77	54.15	54.54	54.92	55.30	55.70	56.10	56.48	56.88	57.28
20	56.60	57.00	57.42	57.82	58.22	58.64	59.06	59.46	59.88	60.30
21	59.43	59.85	60.29	60.71	61.13	61.57	62.01	62.43	62.87	63.31
22	62.26	62.70	63.16	63.60	64.04	64.50	64.96	65.40	65.86	66.33
23	65.09	65.55	66.03	66.49	66.95	67.43	67.91	68.37	68.86	69.34
24	67.92	68.40	68.90	69.38	69.86	70.36	70.87	71.35	71.85	72.36
25	70.75	71.25	71.77	72.27	72.77	73.30	73.82	74.32	74.85	75.37
26	73.58	74.10	74.64	75.16	75.68	76.23	76.77	77.29	77.84	78.39
27	76.41	76.95	77.51	78.05	78.59	79.16	79.73	80.27	80.83	81.40
28	79.24	79.80	80.38	80.94	81.50	82.09	82.68	83.24	83.83	84.42
29	82.07	82.65	83.25	83.83	84.41	85.02	85.63	86.21	86.82	87.43
30	84.90	85.50	86.13	86.73	87.33	87.96	88.59	89.19	89.82	90.45

Area

CYLINDERS

182.

CYLINDERS in GALLONS.

29 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	3.03	3.05	3.07	3.09	3.12	3.14	3.16	3.18	3.20	3.22
2	6.07	6.11	6.15	6.19	6.24	6.28	6.32	6.36	6.41	6.45
3	9.10	9.17	9.23	9.29	9.36	9.42	9.48	9.55	9.61	9.68
4	12.14	12.22	12.31	12.39	12.48	12.56	12.65	12.73	12.82	12.90
5	15.18	15.28	15.39	15.49	15.60	15.70	15.81	15.92	16.02	16.13
6	18.21	18.34	18.46	18.59	18.72	18.84	18.97	19.10	19.23	19.36
7	21.25	21.39	21.54	21.69	21.84	21.98	22.14	22.28	22.43	22.58
8	24.28	24.45	24.62	24.79	24.96	25.12	25.30	25.47	25.64	25.81
9	27.32	27.51	27.70	27.89	28.08	28.26	28.46	28.65	28.84	29.04
10	30.36	30.57	30.78	30.99	31.20	31.41	31.63	31.84	32.05	32.27
11	33.39	33.62	33.85	34.08	34.32	34.55	34.79	35.02	35.25	35.49
12	36.43	36.68	36.93	37.18	37.44	37.69	37.95	38.20	38.46	38.72
13	39.46	39.74	40.01	40.28	40.56	40.83	41.11	41.39	41.66	41.95
14	42.50	42.79	43.09	43.38	43.68	43.97	44.28	44.57	44.87	45.17
15	45.54	45.85	46.17	46.48	46.80	47.11	47.44	47.76	48.07	48.40
16	48.57	48.91	49.24	49.58	49.92	50.25	50.60	50.94	51.28	51.63
17	51.61	51.96	52.32	52.68	53.04	53.39	53.77	54.12	54.48	54.85
18	54.64	55.02	55.40	55.78	56.16	56.53	56.93	57.31	57.69	58.08
19	57.68	58.08	58.48	58.88	59.28	59.67	60.09	60.49	60.89	61.31
20	60.72	61.14	61.56	61.98	62.40	62.82	63.26	63.68	64.10	64.54
21	63.75	64.19	64.63	65.07	65.52	65.96	66.42	66.86	67.30	67.76
22	66.79	67.25	67.71	68.17	68.64	69.10	69.58	70.04	70.51	70.99
23	69.82	70.31	70.79	71.27	71.76	72.24	72.74	73.23	73.71	74.22
24	72.86	73.36	73.87	74.37	74.88	75.38	75.91	76.41	76.92	77.44
25	75.90	76.42	76.95	77.47	78.00	78.52	79.07	79.60	80.12	80.67
26	78.93	79.48	80.02	80.57	81.12	81.66	82.23	82.78	83.33	83.90
27	81.97	82.53	83.10	83.67	84.24	84.80	85.40	85.96	86.53	87.12
28	85.00	85.59	86.18	86.77	87.36	87.94	88.56	89.15	89.74	90.35
29	88.04	88.65	89.26	89.87	90.48	91.08	91.72	92.33	92.94	93.58
30	91.08	91.71	92.34	92.97	93.60	94.23	94.80	95.52	96.15	96.81

CYLINDERS

The question selforth in fol: 156. and 164. practiced in the above table

Inches

185.

CYLINDERS in GALLONS.

25

30 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	3.24	3.27	3.29	3.31	3.33	3.35	3.38	3.40	3.42	3.44
2	6.49	6.54	6.58	6.62	6.77	6.71	6.76	6.80	6.84	6.89
3	9.74	9.81	9.87	9.94	10.00	10.07	10.14	10.20	10.27	10.34
4	12.99	13.08	13.16	13.25	13.34	13.43	13.52	13.60	13.69	13.78
5	16.24	16.35	16.46	16.57	16.68	16.79	16.90	17.01	17.12	17.23
6	19.49	19.62	19.75	19.88	20.01	20.14	20.28	20.41	20.54	20.68
7	22.74	22.89	23.04	23.19	23.35	23.50	23.66	23.81	23.96	24.12
8	25.99	26.16	26.33	26.51	26.68	26.86	27.04	27.21	27.39	27.57
9	29.24	29.43	29.62	29.82	30.02	30.22	30.42	30.61	30.81	31.02
10	32.49	32.70	32.92	33.14	33.36	33.58	33.80	24.00	34.24	34.47
11	35.73	35.97	36.21	36.45	36.69	36.93	37.18	37.42	37.66	37.91
12	38.98	39.24	39.50	39.76	40.03	40.29	40.56	40.82	41.08	41.36
13	42.23	42.51	42.79	43.08	43.36	43.65	43.94	44.22	44.51	44.81
14	45.48	45.78	46.08	46.39	46.70	47.01	47.32	47.62	47.93	48.25
15	48.73	49.05	49.38	49.71	50.04	50.37	50.70	51.03	51.36	51.70
16	51.98	52.32	52.67	53.02	53.37	53.72	54.08	54.43	54.78	55.15
17	55.23	55.59	55.96	56.33	56.71	57.08	57.46	57.83	58.20	58.59
18	58.48	58.86	59.25	59.65	60.04	60.44	60.84	61.21	61.63	62.04
19	61.73	62.13	62.54	62.96	63.38	63.80	64.22	64.63	65.05	65.49
20	64.98	65.40	65.84	66.28	66.72	67.16	67.60	68.01	68.48	68.94
21	68.22	68.67	69.13	69.59	70.05	70.51	70.98	71.44	71.90	72.38
22	71.47	71.94	72.42	72.90	73.39	73.87	74.36	74.84	75.32	75.83
23	74.72	75.21	75.71	76.22	76.72	77.23	77.74	78.24	78.75	79.28
24	77.97	78.48	79.00	79.53	80.06	80.59	81.12	81.64	82.17	82.72
25	81.22	81.75	82.30	82.85	83.40	83.95	84.50	85.05	85.60	86.17
26	84.47	85.02	85.59	86.16	86.73	87.30	87.88	88.45	89.02	89.62
27	87.72	88.29	88.88	89.47	90.07	90.66	91.26	91.85	92.44	93.06
28	90.97	91.56	92.17	92.79	93.40	94.02	94.64	95.25	95.87	96.51
29	94.22	94.83	95.46	96.10	96.74	97.38	98.02	98.65	99.29	99.96
30	97.47	98.10	98.76	99.42	100.08	100.74	101.40	102.06	102.72	103.41

D

CYLINDERS

Area

Note if you add 4 inches to the head diam. of any pluncheon. or 6 inches to the head of any pipe it will form a Mean diam. near enough for taking stock of standing Casks in Ship or Retail Shops. the area multipl. by the Net Dip. gives the Content

CYLINDERS in GALLONS.

31 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	3.46	3.49	3.51	3.53	3.55	3.58	3.60	3.62	3.65	3.67
2	6.93	6.98	7.02	7.07	7.11	7.16	7.20	7.25	7.30	7.34
3	10.40	10.47	10.54	10.60	10.67	10.74	10.81	10.88	10.95	11.09
4	13.87	13.96	14.05	14.14	14.23	14.32	14.41	14.50	14.60	14.69
5	17.34	17.45	17.57	17.68	17.79	17.91	18.02	18.13	18.25	18.36
6	20.81	20.94	21.08	21.21	21.35	21.49	21.62	21.76	21.90	22.03
7	24.28	24.43	24.59	24.75	24.91	25.07	25.22	25.38	25.55	25.71
8	27.75	27.92	28.11	28.28	28.47	28.65	28.83	29.01	29.20	29.38
9	31.22	31.41	31.62	31.82	32.03	32.23	32.43	32.64	32.85	33.05
10	34.69	34.91	35.14	35.36	35.59	35.82	36.04	36.27	36.50	36.37
11	38.15	38.40	38.65	38.89	39.14	39.40	39.64	39.89	40.15	40.40
12	41.62	41.89	42.16	42.43	42.70	42.98	43.24	43.52	43.80	44.07
13	45.09	45.38	45.68	45.96	46.26	46.56	46.85	47.15	47.45	47.74
14	48.56	48.87	49.19	49.50	49.82	50.14	50.45	50.77	51.10	51.42
15	52.03	52.36	52.71	53.04	53.38	53.73	54.06	54.40	54.75	55.09
16	55.50	55.85	56.22	56.57	56.94	57.31	57.66	58.03	58.40	58.76
17	58.97	59.34	59.73	60.11	60.50	60.89	61.26	61.65	62.05	62.44
18	62.44	62.83	63.23	63.64	64.06	64.47	64.87	65.28	65.70	66.11
19	65.91	66.32	66.76	67.18	67.62	68.05	68.47	68.91	69.35	69.78
20	69.38	69.82	70.28	70.72	71.18	71.64	72.08	72.54	73.00	73.46
21	72.84	73.31	73.79	74.25	74.73	75.22	75.68	76.16	76.65	77.13
22	76.31	76.80	77.30	77.79	78.29	78.80	79.28	79.97	80.30	80.80
23	79.78	80.29	80.82	81.32	81.85	82.38	82.89	83.42	83.95	84.47
24	83.25	83.78	84.33	84.86	85.41	85.96	86.49	87.04	87.60	88.15
25	86.72	87.27	87.85	88.40	88.97	89.55	90.10	90.67	91.25	91.82
26	90.19	90.76	91.36	91.93	92.53	93.13	93.70	94.30	94.90	95.49
27	93.66	94.25	94.87	95.47	96.09	96.71	97.30	97.92	98.55	99.17
28	97.13	97.74	98.39	99.00	99.65	100.29	100.91	101.55	102.20	102.84
29	100.60	101.23	101.90	102.54	103.21	103.87	104.51	105.18	105.85	106.51
30	104.07	104.73	105.42	106.08	106.77	107.46	108.12	108.81	109.50	110.10

CYLINDERS

Searchers
for Bunges
and Condens
B. Cont.
33, - 126
32.6 122
N.O. the mea-
of bunch: are
mostly from
27. to 28 inch.
Diameters

CYLINDERS in GALLONS.

32 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	3.69	3.72	3.74	3.76	3.78	3.81	3.83	3.86	3.88	3.90
2	7.39	7.44	7.48	7.53	7.57	7.62	7.67	7.72	7.76	7.81
3	11.08	11.16	11.22	11.29	11.36	11.43	11.50	11.58	11.65	11.72
4	14.78	14.88	14.97	15.06	15.15	15.25	15.34	15.44	15.53	15.62
5	18.48	18.60	18.71	18.83	18.94	19.06	19.18	19.30	19.42	19.53
6	22.17	22.32	22.45	22.59	22.73	22.87	23.01	23.16	23.30	23.44
7	25.87	26.04	26.20	26.36	26.52	26.69	26.85	27.02	27.18	27.34
8	29.56	29.76	29.94	30.12	30.31	30.50	30.68	30.88	31.07	31.25
9	33.26	33.48	33.68	33.89	34.10	34.31	34.52	34.74	34.95	35.16
10	36.96	37.20	37.43	37.66	37.89	38.13	38.36	38.60	38.84	39.07
11	40.65	40.92	41.17	41.42	41.67	41.94	42.19	42.46	42.72	42.97
12	44.35	44.64	44.91	45.19	45.46	45.75	46.03	46.32	46.60	46.88
13	48.04	48.36	48.65	48.95	49.25	49.56	49.86	50.18	50.49	50.79
14	51.74	52.08	52.40	52.72	53.04	53.38	53.70	54.04	54.37	54.69
15	55.44	55.80	56.14	56.49	56.83	57.19	57.54	57.90	58.26	58.60
16	59.13	59.52	59.88	60.25	60.62	61.00	61.37	61.76	62.14	62.51
17	62.83	63.24	63.63	64.02	64.41	64.82	65.21	65.62	66.02	66.41
18	66.52	66.96	67.37	67.78	68.20	68.63	69.04	69.48	69.91	70.32
19	70.22	70.68	71.11	71.55	71.99	72.44	72.88	73.34	73.79	74.23
20	73.92	74.40	74.86	75.32	75.78	76.26	76.72	77.20	77.68	78.14
21	77.61	78.12	78.60	79.08	79.56	80.07	80.55	81.06	81.56	82.04
22	81.31	81.84	82.34	82.85	83.35	83.88	84.39	84.92	85.44	85.95
23	85.00	85.56	86.08	86.61	87.14	87.69	88.22	88.78	89.33	89.86
24	88.70	89.28	89.83	90.38	90.93	91.51	92.06	92.64	93.21	93.76
25	92.40	93.00	93.57	94.15	94.72	95.32	95.90	96.50	97.10	97.67
26	96.09	96.72	97.31	97.91	98.51	99.13	99.73	100.36	100.98	101.58
27	99.79	100.44	101.06	101.68	102.30	102.95	103.57	104.22	104.86	105.48
28	103.48	104.16	104.80	105.44	106.09	106.76	107.40	108.08	108.75	109.39
29	107.18	107.88	108.54	109.21	109.88	110.57	111.24	111.94	112.63	113.30
30	110.88	111.60	112.29	112.98	113.67	114.39	115.08	115.80	116.52	117.21

Area

D 2

CYLINDERS

Dimensions
per Attaches
and Contents
A. Cont.
37 130
36 125
35 120
34 116

CYLINDERS in GALLONS.

33 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	3.93	3.95	3.97	4.00	4.02	4.05	4.07	4.10	4.12	4.14
2	7.86	7.91	7.95	8.00	8.05	8.10	8.15	8.20	8.24	8.29
3	11.79	11.86	11.93	12.00	12.08	12.15	12.22	12.30	12.37	12.44
4	15.72	15.82	15.91	16.01	16.10	16.20	16.30	16.40	16.49	16.59
5	19.65	19.77	19.89	20.01	20.13	20.25	20.37	20.50	20.62	20.74
6	23.58	23.73	23.87	24.01	24.16	24.30	24.45	24.60	24.74	24.88
7	27.51	27.68	27.85	28.02	28.18	28.35	28.52	28.70	28.86	29.03
8	31.44	31.64	31.83	32.02	32.21	32.40	32.60	32.80	32.99	33.18
9	35.37	35.59	35.81	36.02	36.24	36.45	36.67	36.90	37.11	37.33
10	39.31	39.55	39.79	40.03	40.27	40.51	40.75	41.00	41.24	41.48
11	43.24	43.50	43.76	44.03	44.29	44.56	44.82	45.10	45.36	45.62
12	47.17	47.46	47.74	48.03	48.31	48.61	48.90	49.20	49.48	49.77
13	51.10	51.41	51.72	52.03	52.35	52.66	52.97	53.30	53.61	53.92
14	55.03	55.37	55.71	56.04	56.37	56.71	57.05	57.50	57.73	58.07
15	58.96	59.32	59.69	60.04	60.40	60.76	61.12	61.50	61.86	62.22
16	62.89	63.28	63.67	64.04	64.43	64.81	65.20	65.60	65.98	66.36
17	66.82	67.23	67.65	68.05	68.45	68.86	69.27	69.70	70.10	70.51
18	70.75	71.19	71.63	72.05	72.48	72.91	73.35	73.80	74.23	74.66
19	74.68	75.14	75.61	76.05	76.51	76.96	77.42	77.90	78.35	78.81
20	78.62	79.10	79.59	80.06	80.54	81.02	81.50	82.00	82.48	82.96
21	82.55	83.05	83.56	84.06	84.56	85.07	85.57	86.10	86.60	87.10
22	86.48	87.01	87.54	88.06	88.59	89.12	89.65	90.20	90.72	91.25
23	90.41	90.96	91.52	92.06	92.62	93.17	93.72	94.30	94.85	95.40
24	94.34	94.92	95.50	96.07	96.64	97.22	97.80	98.40	98.97	99.55
25	98.27	98.87	99.48	100.07	100.67	101.27	101.87	102.50	103.10	103.70
26	102.20	102.83	103.46	104.07	104.70	105.32	105.95	106.60	107.22	107.84
27	106.13	106.78	107.44	108.08	108.72	109.37	110.02	110.70	111.34	111.99
28	110.06	110.74	111.42	112.08	112.75	113.42	114.10	114.80	115.47	116.14
29	113.99	114.69	115.40	116.08	116.78	117.47	118.17	118.90	119.59	120.29
30	117.93	118.65	119.37	120.09	120.81	121.53	122.25	123.00	123.72	124.44

CYLINDERS

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CYLINDERS in GALLONS.

29

34 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	4.17	4.19	4.22	4.24	4.27	4.29	4.32	4.34	4.37	4.39
2	8.34	8.39	8.44	8.49	8.54	8.59	8.64	8.69	8.74	8.79
3	12.51	12.59	12.66	12.74	12.81	12.88	12.96	13.03	13.11	13.19
4	16.69	16.78	16.88	16.98	17.08	17.18	17.28	17.38	17.48	17.58
5	20.86	20.98	21.11	21.23	21.35	21.48	21.60	21.73	21.86	21.98
6	25.03	25.18	25.33	25.48	25.62	25.77	25.92	26.07	26.23	26.38
7	29.21	29.37	29.55	29.72	29.89	30.07	30.24	30.42	30.60	30.77
8	33.38	33.57	33.77	33.97	34.16	34.36	34.56	34.76	34.97	35.17
9	37.55	37.77	37.99	38.22	38.43	38.66	38.88	39.11	39.34	39.57
10	41.73	41.97	42.22	42.47	42.71	42.96	43.21	43.46	43.72	43.97
11	45.90	46.16	46.44	46.71	46.98	47.25	47.53	47.80	48.09	48.36
12	50.07	50.36	50.66	50.96	51.25	51.55	51.85	52.15	52.46	52.76
13	54.24	54.56	54.88	55.21	55.52	55.84	56.17	56.49	56.83	57.16
14	58.42	58.75	59.10	59.45	59.79	60.14	60.49	60.84	61.20	61.55
15	62.59	62.95	63.33	63.70	64.06	64.44	64.81	65.19	65.58	65.95
16	66.76	67.15	67.55	67.95	68.33	68.73	69.13	69.53	69.95	70.35
17	70.94	71.34	71.77	72.19	72.60	72.03	73.45	73.88	74.32	74.74
18	75.11	75.54	75.99	76.44	76.87	77.32	77.77	78.22	78.69	79.14
19	79.28	79.74	80.21	80.69	81.14	81.62	82.09	82.57	83.06	83.54
20	83.46	83.94	84.44	84.94	85.42	85.92	86.42	86.92	87.44	87.94
21	87.63	88.13	88.66	89.18	89.69	90.21	90.74	91.26	91.81	92.33
22	91.80	92.33	92.88	93.43	93.96	94.51	95.06	95.61	96.18	96.73
23	95.97	96.53	97.10	97.68	98.23	98.80	99.38	99.95	100.55	101.13
24	100.15	100.72	101.32	101.92	102.50	103.10	103.70	104.30	104.92	105.51
25	104.32	104.92	105.55	106.17	106.77	107.40	108.02	108.65	109.30	109.92
26	108.49	109.12	109.77	110.42	111.04	111.69	112.34	112.99	113.67	114.32
27	112.67	113.31	113.99	114.66	115.31	115.99	116.66	117.34	118.04	118.71
28	116.84	117.51	118.21	118.91	119.58	120.28	120.98	121.66	122.44	123.11
29	121.01	121.71	122.43	123.16	123.85	124.58	125.30	126.02	126.78	127.51
30	125.19	125.91	126.66	127.41	128.13	128.88	129.63	130.38	131.16	131.91

CYLINDERS

CYLINDERS in GALLONS.

35 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	4.42	4.44	4.47	4.49	4.52	4.54	4.57	4.60	4.62	4.65
2	8.84	8.89	8.94	8.99	9.04	9.09	9.15	9.20	9.25	9.30
3	13.26	13.34	13.41	13.49	13.57	13.64	13.72	13.80	13.87	13.95
4	17.68	17.78	17.89	17.99	18.09	18.19	18.30	18.40	18.50	18.60
5	22.11	22.23	22.36	22.49	22.62	22.74	22.87	23.00	23.13	23.26
6	26.53	26.68	26.83	26.98	27.14	27.29	27.45	27.60	27.75	27.91
7	30.95	31.12	31.31	31.48	31.66	31.84	32.02	32.20	32.38	32.56
8	35.37	35.57	35.78	35.98	36.19	36.39	36.60	36.80	37.00	37.21
9	39.79	40.02	40.25	40.48	40.71	40.94	41.17	41.40	41.63	41.86
10	44.22	44.47	44.73	44.98	45.24	45.49	45.75	46.01	46.26	46.52
11	48.64	48.91	49.20	49.47	49.76	50.03	50.32	50.61	50.88	51.17
12	53.06	53.36	53.67	53.97	54.28	54.58	54.90	55.21	55.51	55.82
13	57.48	57.81	58.14	58.47	58.81	59.13	59.47	59.81	60.13	60.17
14	61.90	62.25	62.62	62.97	63.33	63.68	64.05	64.41	64.76	65.12
15	66.43	66.70	67.09	67.47	67.86	68.24	68.62	69.01	69.39	69.78
16	70.75	71.15	71.56	71.96	72.38	72.78	73.20	73.61	74.01	74.43
17	75.17	75.59	76.04	76.46	76.90	77.33	77.77	78.21	78.64	79.08
18	79.59	80.04	80.51	80.96	81.43	81.88	82.35	82.81	83.26	83.73
19	84.01	84.49	84.98	85.46	85.95	86.43	86.92	87.41	87.89	88.38
20	88.44	88.94	89.46	89.96	90.48	90.98	91.50	92.02	92.52	93.04
21	92.86	93.38	93.93	94.45	95.00	95.52	96.07	96.62	97.14	97.69
22	97.28	97.83	98.40	98.95	99.52	100.07	100.65	101.22	101.77	102.34
23	101.70	102.28	102.87	103.45	104.05	104.62	105.22	105.82	106.39	106.99
24	106.12	106.72	107.35	107.95	108.57	109.17	109.80	110.42	111.02	111.64
25	110.55	111.17	111.82	112.45	113.10	113.72	114.37	115.02	115.65	116.30
26	114.97	115.62	116.29	116.94	117.62	118.27	118.95	119.62	120.27	120.95
27	119.39	120.06	120.77	121.44	122.14	122.82	123.52	124.22	124.90	125.60
28	123.81	124.51	125.24	125.94	126.67	127.37	128.10	128.82	129.52	130.25
29	128.23	128.96	129.71	130.44	131.19	131.92	132.67	133.42	134.15	134.90
30	132.66	133.41	134.19	134.84	135.72	136.47	137.25	138.03	138.78	139.56

CYLINDERS

CYLINDERS in GALLONS.

31

36 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	4.67	4.70	4.73	4.75	4.78	4.80	4.83	4.86	4.88	4.91
2	9.35	9.40	9.46	9.51	9.56	9.61	9.67	9.72	9.77	9.83
3	14.03	14.11	14.19	14.26	14.34	14.42	14.50	14.58	14.66	14.74
4	18.71	18.81	18.92	19.02	19.13	19.23	19.34	19.44	19.55	19.66
5	23.39	23.52	23.65	24.78	24.91	25.04	25.18	25.31	25.44	25.57
6	28.06	28.22	28.38	28.53	28.69	28.85	29.01	29.17	29.32	29.49
7	32.74	32.92	33.11	33.29	33.48	33.66	33.85	34.03	34.21	34.40
8	37.42	37.63	37.84	38.04	38.26	38.47	38.68	38.89	39.10	39.32
9	42.10	42.33	42.57	42.80	43.04	43.28	43.52	43.75	43.99	44.23
10	46.78	47.04	47.30	47.56	47.83	48.09	48.36	48.62	48.88	49.15
11	51.45	51.74	52.03	52.31	52.61	52.89	53.19	53.48	53.76	54.06
12	56.13	56.44	56.76	57.07	57.39	57.70	58.03	58.34	58.65	58.98
13	60.81	61.15	61.49	61.82	62.17	62.51	62.86	63.20	63.54	63.89
14	65.49	65.85	66.22	66.58	66.96	67.32	67.70	68.06	68.43	68.81
15	70.17	70.56	70.95	71.34	71.74	72.13	72.54	72.93	73.32	73.72
16	74.84	75.26	75.68	76.09	76.52	76.94	77.37	77.79	78.20	78.64
17	79.52	79.96	80.41	80.75	81.31	81.75	82.21	82.65	83.09	83.55
18	84.20	84.67	85.14	85.60	86.09	86.56	87.04	87.51	87.98	88.47
19	88.88	89.37	89.87	90.36	90.87	91.37	91.88	92.37	92.87	93.38
20	93.56	94.08	94.60	95.12	95.66	96.18	96.72	97.24	97.76	98.30
21	98.23	98.78	99.33	99.87	100.44	100.98	101.55	102.10	102.64	103.21
22	102.91	103.48	104.06	104.63	105.22	105.79	106.39	106.96	107.53	108.13
23	107.59	108.19	108.79	109.38	110.00	110.60	111.22	111.82	112.42	113.04
24	112.27	112.89	113.52	114.14	114.79	115.41	116.06	116.68	117.31	117.96
25	116.95	117.60	118.25	118.90	119.57	120.22	120.90	121.55	122.20	122.87
26	121.62	122.30	122.98	123.65	124.35	125.03	125.73	126.41	127.08	127.79
27	126.30	127.00	127.71	128.41	129.13	129.84	130.57	131.27	131.97	132.70
28	130.98	131.61	132.44	133.16	133.92	134.65	135.40	136.13	136.86	137.62
29	135.66	136.41	137.17	137.92	138.70	139.46	140.24	140.99	141.75	142.53
30	140.34	141.12	141.90	142.68	143.49	144.27	145.08	145.86	146.64	147.45

CYLINDERS

CYLINDERS in GALLONS.

37 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	4.94	4.96	4.99	5.02	5.04	5.07	5.10	5.13	5.15	5.18
2	9.88	9.93	9.99	10.04	10.09	10.15	10.20	10.26	10.31	10.37
3	14.82	14.90	14.98	15.06	15.14	15.22	15.29	15.39	15.47	15.55
4	19.76	19.87	19.98	20.08	20.19	20.30	20.41	20.52	20.63	20.74
5	24.71	24.84	24.97	25.11	25.24	25.38	25.51	25.65	25.79	25.92
6	29.65	29.80	29.97	30.13	30.29	30.45	30.61	30.78	30.94	31.11
7	34.59	34.77	34.96	35.15	35.34	35.53	35.72	35.91	36.10	36.29
8	39.53	39.74	39.96	40.17	40.39	40.60	40.82	41.04	41.26	41.48
9	44.47	44.71	44.95	45.19	45.44	45.68	45.92	46.17	46.42	46.66
10	49.42	49.68	49.95	50.22	50.49	50.76	51.03	51.31	51.58	51.85
11	54.36	54.64	54.94	55.24	55.53	55.83	56.13	56.44	56.73	57.03
12	59.30	59.61	59.94	60.26	60.58	60.91	61.23	61.57	61.89	62.22
13	64.24	64.58	64.93	65.28	65.63	65.98	66.33	66.70	67.05	67.40
14	69.18	69.55	69.93	70.30	70.68	71.06	71.44	71.83	72.21	72.59
15	74.13	74.52	74.92	75.33	75.73	76.14	76.54	76.96	77.37	77.77
16	79.07	79.48	79.92	80.35	80.78	81.21	81.64	82.09	82.52	82.96
17	84.01	84.45	84.91	85.37	85.83	86.29	86.75	87.22	87.68	88.14
18	88.95	89.42	89.91	90.39	90.88	91.36	91.85	92.35	92.84	93.33
19	93.89	94.39	94.90	95.41	95.93	96.44	96.95	97.48	98.00	98.51
20	98.84	99.36	99.90	100.44	100.98	101.52	102.06	102.62	103.16	103.70
21	103.78	104.32	104.89	105.46	106.02	106.59	107.16	107.75	108.31	108.88
22	108.72	109.29	109.89	110.48	111.07	111.67	112.26	112.88	113.47	114.07
23	113.66	114.26	114.88	115.50	116.12	116.74	117.36	118.01	118.63	119.25
24	118.60	119.23	119.88	120.52	121.17	121.82	122.47	123.14	123.79	124.44
25	123.55	124.20	124.87	125.55	126.22	126.90	127.57	128.27	128.95	129.62
26	128.49	129.16	129.87	130.57	131.27	131.97	132.67	133.40	134.10	134.81
27	133.43	134.13	134.86	135.59	136.32	137.05	137.78	138.53	139.26	139.99
28	138.37	139.18	139.86	140.66	141.37	142.12	142.88	143.66	144.42	145.18
29	143.31	144.07	144.85	145.63	146.42	147.20	147.98	148.79	149.58	150.36
30	148.26	149.04	149.85	150.66	151.47	152.28	153.09	153.93	154.74	155.55

CYLINDERS

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CYLINDERS in GALLONS.

33

38 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	5.21	5.24	5.26	5.29	5.32	5.35	5.37	5.40	5.43	5.46
2	10.42	10.48	10.53	10.59	10.64	10.70	10.75	10.81	10.86	10.92
3	15.63	15.72	15.80	15.88	15.96	16.05	16.13	16.21	16.30	16.38
4	20.84	20.96	21.06	21.18	21.29	21.40	21.51	21.62	21.73	21.84
5	26.06	26.20	26.33	26.47	26.61	26.75	26.89	27.03	27.17	27.31
6	31.27	31.44	31.60	31.77	31.93	32.10	32.26	32.43	32.60	32.77
7	36.48	36.68	36.86	37.06	37.26	37.45	37.64	37.84	38.03	38.23
8	41.69	41.92	42.13	42.36	42.58	42.80	43.02	43.24	43.47	43.69
9	46.90	47.16	47.40	47.65	47.90	48.15	48.40	48.65	48.90	49.15
10	52.12	52.40	52.67	52.95	53.23	53.51	53.78	54.06	54.34	54.62
11	57.33	57.64	57.93	58.24	58.55	58.86	59.15	59.46	59.77	60.08
12	62.54	62.88	63.20	63.54	63.87	64.21	64.53	64.87	65.20	65.54
13	67.75	68.12	68.47	68.83	69.19	69.56	69.91	70.27	70.64	71.00
14	72.96	73.36	73.73	74.13	74.52	74.91	75.29	75.68	76.07	76.46
15	78.18	78.60	79.00	79.42	79.84	80.26	80.67	81.09	81.51	81.93
16	83.39	83.84	84.27	84.72	85.16	85.61	86.04	86.49	86.94	87.39
17	88.60	89.08	89.53	90.01	90.49	90.96	91.42	91.90	92.37	92.85
18	93.81	94.32	94.80	95.31	95.81	96.31	96.80	97.30	97.81	98.31
19	99.02	99.56	100.07	100.60	101.13	101.66	102.18	102.71	103.24	103.77
20	104.24	104.80	105.34	105.90	106.46	107.02	107.56	108.12	108.68	109.24
21	109.45	110.04	110.60	111.19	111.78	112.37	112.93	113.52	114.11	114.70
22	114.66	115.28	115.87	116.49	117.10	117.72	118.31	118.93	119.54	120.16
23	119.87	120.52	121.14	121.78	122.42	123.07	123.69	124.33	124.98	125.62
24	125.08	125.76	126.40	127.08	127.75	128.42	129.07	129.74	130.41	131.08
25	130.30	131.00	131.67	132.37	133.07	133.77	134.45	135.15	135.85	136.55
26	135.51	136.24	136.94	137.67	138.39	139.12	139.82	140.55	141.28	142.01
27	140.72	141.48	142.20	142.96	143.72	144.47	145.20	145.96	146.71	147.47
28	145.93	146.72	147.47	148.26	149.04	149.82	150.58	151.36	152.15	152.93
29	151.14	151.96	152.74	153.55	154.36	155.17	155.96	156.77	157.58	158.39
30	156.36	157.20	158.01	158.85	159.69	160.53	161.34	162.18	163.02	163.86

E

CYLINDER

CYLINDERS in GALLONS.

39 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	5.49	5.51	5.54	5.57	5.60	5.63	5.66	5.68	5.71	5.74
2	10.98	11.03	11.09	11.15	11.20	11.26	11.32	11.37	11.43	11.49
3	16.47	16.55	16.64	16.72	16.81	16.89	16.98	17.06	17.15	17.24
4	21.96	22.07	22.18	22.30	22.41	22.52	22.64	22.75	22.87	22.88
5	27.45	27.59	27.73	27.87	28.02	28.16	28.30	28.44	28.59	28.73
6	32.94	33.11	33.28	33.45	33.62	33.79	33.96	34.13	34.30	34.48
7	38.43	38.63	38.82	39.02	39.22	39.42	39.62	39.82	40.02	40.22
8	43.92	44.15	44.37	44.60	44.83	45.05	45.28	45.51	45.74	45.97
9	49.41	49.67	49.92	50.17	50.43	50.68	50.94	51.20	51.46	51.72
10	54.91	55.19	55.47	55.75	56.04	56.32	56.61	56.89	57.18	57.47
11	60.40	60.70	61.01	61.32	61.64	61.95	62.27	62.57	62.89	63.21
12	65.89	66.22	66.56	66.90	67.24	67.58	67.93	68.26	68.61	68.96
13	71.38	71.74	72.11	72.47	72.85	73.21	73.59	73.95	74.33	74.71
14	76.87	77.26	77.65	78.05	78.45	78.84	79.25	79.64	80.05	80.45
15	82.36	82.78	83.20	83.62	84.06	84.48	84.91	85.33	85.77	86.20
16	87.85	88.30	88.75	89.20	89.66	90.11	90.57	91.02	91.48	91.95
17	93.34	93.82	94.29	94.77	95.26	95.74	96.23	96.71	97.20	97.69
18	98.83	99.34	99.84	100.35	100.87	101.37	101.89	102.40	102.92	103.44
19	104.32	104.86	105.35	105.92	106.47	107.00	107.55	108.09	108.64	109.19
20	109.82	110.38	110.94	111.50	112.08	112.64	113.22	113.78	114.36	114.94
21	115.31	115.89	116.48	117.07	117.68	118.27	118.88	119.46	120.07	120.68
22	120.80	121.41	122.03	122.65	123.28	123.90	124.54	125.15	125.79	126.42
23	126.20	126.93	127.58	128.22	128.89	129.55	130.20	130.84	131.51	132.18
24	131.78	132.45	133.12	133.80	134.49	135.16	135.86	136.53	137.23	137.92
25	137.27	137.97	138.67	139.37	140.10	140.80	141.52	142.22	142.95	143.67
26	142.76	143.49	144.22	144.95	145.70	146.43	147.18	147.91	148.66	149.42
27	148.25	149.01	149.76	150.52	151.30	152.06	152.84	153.60	154.38	155.16
28	153.74	154.53	155.31	156.10	156.91	157.65	158.50	159.29	160.10	160.91
29	159.23	160.05	160.86	161.67	162.51	163.32	164.16	164.98	165.82	166.66
30	164.73	165.57	166.41	167.25	168.12	168.96	169.83	170.67	171.54	172.41

CYLINDERS

195

CYLINDERS in GALLONS.

35

40 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	5.77	5.80	5.83	5.86	5.89	5.92	5.95	5.98	6.00	6.03
2	11.55	11.61	11.66	11.72	11.78	11.84	11.90	11.96	12.01	12.07
3	17.32	17.41	17.50	17.58	17.67	17.76	17.85	17.94	18.02	18.11
4	23.10	23.22	23.33	23.45	23.56	23.68	23.80	23.92	24.03	24.15
5	28.88	29.02	29.17	29.31	29.46	29.60	29.75	29.90	30.04	32.19
6	34.65	34.83	35.00	35.17	35.35	35.52	35.70	35.88	36.05	36.23
7	40.43	40.63	40.83	41.04	41.24	41.44	41.65	41.86	42.06	42.27
8	46.20	46.44	46.67	46.90	47.13	47.36	47.60	47.84	48.07	48.31
9	51.98	52.24	52.50	52.76	53.02	53.28	53.55	53.82	54.08	54.35
10	57.76	58.05	58.34	58.63	58.92	59.21	59.50	59.80	60.09	60.39
11	63.53	63.85	64.17	64.49	64.81	65.13	65.45	65.78	66.09	66.42
12	69.31	69.66	70.00	70.35	70.70	71.05	71.40	71.76	72.10	72.46
13	75.08	75.46	75.84	76.21	76.59	76.97	77.35	77.74	78.11	78.50
14	80.86	81.27	81.67	82.08	82.48	82.89	83.30	83.72	84.12	84.54
15	86.64	87.07	87.15	87.94	88.38	88.81	89.25	89.70	90.13	90.58
16	92.41	92.88	93.34	93.83	94.27	94.73	95.20	95.68	96.14	96.62
17	98.19	98.68	99.17	99.67	100.16	100.65	101.15	101.66	102.15	102.66
18	103.96	104.49	105.01	105.53	106.05	106.57	107.10	107.64	108.16	108.70
19	109.74	110.29	110.84	111.39	111.94	112.49	113.05	113.62	114.17	114.74
20	115.52	116.10	116.68	117.26	117.84	118.42	119.00	119.60	120.18	120.78
21	121.29	121.90	122.51	123.12	123.73	124.34	124.95	125.58	126.18	126.81
22	127.07	127.71	128.34	128.98	129.62	130.26	130.90	131.56	132.19	132.85
23	132.84	133.51	134.18	134.84	135.51	136.18	136.85	137.54	138.20	138.89
24	138.62	139.42	140.01	140.71	141.40	142.10	142.80	143.52	144.21	144.93
25	144.40	145.22	145.85	146.57	147.30	148.02	148.75	149.50	150.22	150.97
26	150.17	151.03	151.68	152.43	153.19	153.94	154.70	155.48	156.23	157.01
27	155.95	156.83	157.51	158.30	159.08	159.86	160.65	161.46	162.24	163.05
28	161.72	162.64	163.35	164.16	164.97	165.78	166.60	167.44	168.25	169.09
29	167.50	168.44	169.18	170.02	170.86	171.70	172.55	173.42	174.26	175.13
30	173.28	174.25	175.02	175.89	176.76	177.63	178.50	179.40	180.27	181.17

E 2

CYLINDERS

CYLINDERS in GALLONS.

41 Inches Diameter.

Depth	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	6.06	6.09	6.12	6.15	6.18	6.21	6.24	6.27	6.30	6.33
2	12.13	12.18	12.24	12.30	12.36	12.42	12.48	12.54	12.60	12.66
3	18.18	18.27	18.36	18.45	18.54	18.63	18.72	18.81	18.90	18.99
4	24.27	24.36	24.48	24.60	24.72	24.84	24.96	25.08	25.20	25.32
5	30.34	30.45	30.60	30.75	30.90	31.05	31.20	31.35	31.50	31.65
6	36.40	36.58	36.76	36.94	37.10	37.30	37.48	37.66	37.84	38.02
7	42.47	42.68	42.88	43.09	43.30	43.51	43.72	43.93	44.14	44.35
8	48.55	48.78	49.01	49.25	49.49	49.73	49.97	50.21	50.45	50.69
9	54.61	54.88	55.34	55.41	55.78	55.95	56.22	56.49	56.76	57.03
10	60.68	60.98	61.27	61.57	61.87	62.17	62.47	62.77	63.07	63.37
11	66.74	67.07	67.39	67.72	68.05	68.38	68.71	69.04	69.37	69.70
12	72.81	73.17	73.52	73.88	74.24	74.60	74.96	75.32	75.68	76.04
13	78.88	79.27	79.65	80.04	80.43	80.82	81.21	81.60	81.99	82.38
14	84.95	85.37	85.77	86.19	86.61	87.03	87.45	87.87	88.29	88.71
15	91.02	91.47	91.90	92.35	92.80	93.25	93.70	94.15	94.60	95.05
16	97.09	97.56	98.03	98.51	98.99	99.47	99.95	100.43	101.04	101.39
17	103.15	103.66	104.15	104.60	105.17	105.68	106.19	106.70	107.21	107.72
18	109.22	109.76	110.28	110.82	111.36	111.80	112.44	112.98	113.52	114.06
19	115.29	115.86	116.41	116.98	117.55	118.12	118.69	119.26	119.83	120.40
20	121.36	121.96	122.54	123.14	123.74	124.34	124.94	125.54	126.14	126.74
21	127.42	128.05	128.66	129.29	129.92	130.55	131.18	131.81	132.44	133.07
22	133.49	134.15	134.79	135.45	136.11	136.77	137.43	138.09	138.75	139.41
23	139.56	140.25	140.92	141.61	142.30	142.99	143.68	144.37	145.06	145.75
24	145.63	146.35	147.04	147.76	148.48	149.20	149.92	150.64	151.36	152.08
25	151.71	152.45	153.17	153.92	154.67	155.42	156.17	156.92	157.67	158.42
26	157.76	158.58	159.30	160.08	160.80	161.64	162.42	163.20	163.98	164.76
27	163.83	164.64	165.42	166.23	167.04	167.85	168.66	169.47	170.28	171.09
28	169.95	170.74	171.55	172.39	173.23	174.07	174.83	175.75	176.59	177.43
29	175.97	176.84	177.68	178.55	179.42	180.29	181.16	182.03	182.90	183.77
30	182.04	182.94	183.81	184.71	185.61	186.51	187.41	188.31	189.21	190.11

CYLINDERS

CYLINDERS in GALLONS.

37

42 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	6.36	6.39	6.42	6.45	6.49	6.52	6.55	6.58	6.61	6.64
2	12.73	12.79	12.85	12.91	12.98	13.04	13.10	13.16	13.22	13.28
3	19.10	19.19	19.28	19.37	19.47	19.56	19.65	19.74	19.83	19.93
4	25.47	25.59	25.71	25.83	25.96	26.08	26.20	26.32	26.45	26.57
5	31.84	31.99	32.14	32.29	32.45	32.60	32.75	32.91	33.06	33.22
6	38.20	38.36	38.57	38.75	38.94	39.12	39.30	39.49	39.67	39.86
7	44.47	44.78	45.00	45.21	45.43	45.64	45.85	46.07	46.29	46.50
8	50.94	51.18	51.43	51.67	51.92	52.16	52.40	52.65	52.90	53.15
9	57.31	57.58	57.86	58.13	58.41	58.68	58.95	59.22	59.51	59.79
10	63.68	63.98	64.29	64.55	64.90	65.20	65.51	65.82	66.13	66.44
11	70.04	70.37	70.71	71.04	71.39	71.72	72.06	72.40	72.74	73.08
12	76.41	76.77	77.14	77.50	77.88	78.24	78.61	78.98	79.35	79.72
13	82.78	83.17	83.57	83.96	84.37	84.76	85.16	85.56	85.96	86.37
14	89.15	89.57	90.00	90.42	90.86	91.28	91.71	92.14	92.58	93.01
15	95.52	95.97	96.43	96.88	97.35	97.80	98.26	98.73	99.19	99.66
16	101.88	102.36	102.86	103.34	103.84	104.32	104.81	105.31	105.80	106.30
17	108.25	108.76	109.29	109.80	110.13	110.84	111.36	111.89	112.42	112.94
18	114.62	115.16	115.74	116.26	116.82	117.36	117.91	118.47	119.07	119.59
19	120.99	121.56	122.15	122.72	123.31	123.88	124.46	125.05	125.64	126.23
20	127.36	127.96	128.58	129.16	129.80	130.40	131.02	131.64	132.26	132.88
21	133.72	134.35	135.00	135.63	136.29	136.92	137.57	138.22	138.87	139.52
22	140.09	140.75	141.43	142.09	142.76	143.44	144.12	144.80	145.48	146.16
23	146.64	147.15	147.86	148.55	149.27	149.96	150.67	151.38	152.09	152.81
24	152.83	153.55	154.29	155.01	155.76	156.48	157.22	157.96	158.71	159.45
25	159.20	159.95	160.50	161.25	162.25	163.00	163.75	164.50	165.25	166.00
26	165.36	166.14	166.92	167.70	168.74	169.52	170.30	171.08	171.86	172.64
27	171.72	172.53	173.34	174.15	175.23	176.04	176.85	177.66	178.47	179.28
28	178.08	178.92	179.76	180.60	181.72	182.56	183.40	184.24	185.08	185.92
29	184.44	185.31	186.18	187.05	188.21	189.08	189.95	190.82	191.69	192.56
30	190.80	191.70	192.60	193.50	194.70	195.60	196.50	197.40	198.30	199.20

CYLINDERS

CYLINDERS in GALLONS.

43 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	6.67	6.70	6.73	6.76	6.79	6.83	6.86	6.89	6.92	6.95
2	13.35	13.41	13.47	13.53	13.59	13.66	13.72	13.78	13.85	13.91
3	20.02	20.11	20.21	20.30	20.39	20.49	20.58	20.59	20.77	20.87
4	26.70	26.82	26.94	27.07	27.19	27.32	27.44	27.57	27.70	27.82
5	33.37	33.53	33.68	33.84	33.99	34.15	34.31	34.47	34.62	34.78
6	40.05	40.23	40.42	40.60	40.79	40.98	41.17	41.36	41.55	41.74
7	46.72	46.94	47.15	47.37	47.59	47.81	48.03	48.25	48.47	48.69
8	53.40	53.64	53.89	54.14	54.39	54.64	54.89	55.15	55.40	55.65
9	60.07	60.35	60.63	61.01	61.19	61.47	61.75	62.04	62.32	62.61
10	66.75	67.06	67.37	67.68	67.99	68.31	68.62	68.94	69.25	69.57
11	73.44	73.76	74.10	74.44	74.78	75.14	75.48	75.83	76.17	76.52
12	80.10	80.47	80.84	81.21	81.58	81.97	82.34	82.72	83.10	83.48
13	86.77	87.17	87.58	87.98	88.38	88.80	89.20	89.62	90.02	90.44
14	93.45	93.88	94.31	94.75	95.18	95.63	96.06	96.41	96.95	97.39
15	100.12	100.59	101.05	101.52	101.98	102.46	102.93	103.41	103.87	104.35
16	106.80	107.29	107.79	108.28	108.78	109.29	109.79	110.30	110.80	111.31
17	113.47	114.00	114.52	115.05	115.58	116.12	116.65	117.19	117.72	118.26
18	120.15	120.70	121.26	121.82	122.38	122.95	123.51	124.09	124.65	125.22
19	126.82	127.40	128.00	128.59	129.18	129.78	130.37	130.98	131.57	132.18
20	133.50	134.12	134.74	135.36	135.98	136.62	137.24	137.88	138.50	139.14
21	140.17	140.82	141.47	142.12	142.77	143.45	144.10	144.87	145.42	146.09
22	146.85	147.53	148.21	148.89	149.57	150.28	150.96	151.66	152.35	153.05
23	153.52	154.23	154.95	155.66	156.37	157.11	157.82	158.56	159.27	160.01
24	160.20	160.94	161.68	162.43	163.17	163.94	164.68	165.45	166.20	166.98
25	166.87	167.65	168.42	169.20	169.97	170.77	171.55	172.35	173.12	173.92
26	173.55	174.35	175.16	175.96	176.77	177.60	178.41	179.24	180.05	180.88
27	180.22	181.06	181.89	182.73	183.57	184.43	185.27	186.13	186.97	187.83
28	186.90	187.76	188.63	189.50	190.37	191.26	192.13	193.03	193.90	194.89
29	193.57	194.47	195.37	196.27	197.17	198.09	198.99	199.86	200.82	201.75
30	200.25	201.18	202.11	203.04	203.97	204.93	205.86	206.82	207.75	208.71

CYLINDERS

CYLINDERS in GALLONS.

39

44 Inches Diameter.

Depth.	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	6.98	7.02	7.05	7.08	7.11	7.14	7.18	7.21	7.24	7.27
2	13.97	14.04	14.10	14.16	14.23	14.29	14.36	14.42	14.49	14.55
3	20.96	21.06	21.15	21.25	21.34	21.44	21.54	21.63	21.73	21.83
4	27.95	28.08	28.20	28.33	28.46	28.59	28.72	28.85	28.98	29.11
5	34.94	35.10	35.26	35.42	35.58	35.74	35.90	36.06	36.22	36.39
6	41.93	42.12	42.31	42.50	42.69	42.88	43.08	43.27	43.47	43.66
7	48.92	49.14	49.36	49.58	49.81	50.03	50.26	50.49	50.71	50.94
8	55.91	56.16	56.41	56.67	56.92	57.18	57.44	57.70	57.96	58.22
9	62.90	63.18	63.46	63.75	64.04	64.33	64.62	64.91	65.20	65.50
10	69.89	70.21	70.52	70.84	71.16	71.48	71.81	72.13	72.45	72.78
11	76.87	77.23	77.57	77.92	78.27	78.62	78.99	79.34	79.69	80.05
12	83.86	84.25	84.62	85.00	85.39	85.77	86.17	86.55	86.94	87.33
13	90.85	91.27	91.67	92.09	92.50	92.92	93.35	93.76	94.18	94.60
14	97.84	98.29	98.72	99.17	99.62	100.07	100.53	100.98	101.43	101.89
15	104.83	105.31	105.78	106.26	106.74	107.22	107.71	108.19	108.67	109.17
16	111.82	112.33	112.83	113.34	113.85	114.36	114.89	115.40	115.92	116.44
17	118.81	119.35	119.88	120.42	120.97	121.51	122.07	122.62	123.16	123.72
18	125.80	126.37	126.93	127.51	128.08	128.66	129.25	129.83	130.41	130.98
19	132.79	133.39	133.98	134.59	135.20	135.81	136.43	137.04	137.65	138.28
20	139.78	140.42	141.04	141.68	142.32	142.96	143.62	144.26	144.90	145.56
21	146.76	147.44	148.09	148.78	149.43	150.10	150.80	151.47	152.14	152.83
22	153.75	154.46	155.14	155.84	156.55	157.25	157.98	158.68	159.39	160.11
23	160.74	161.48	162.19	162.93	163.66	164.40	165.16	165.89	166.63	167.39
24	167.73	168.50	169.24	170.01	170.78	171.55	172.34	173.11	173.88	174.67
25	174.72	175.52	176.29	177.10	177.90	178.70	179.52	180.32	181.12	181.95
26	181.71	182.54	183.35	184.18	185.01	185.84	186.70	187.53	188.37	189.22
27	188.70	189.56	190.40	191.26	192.13	192.99	193.88	194.75	195.61	196.50
28	195.69	196.58	197.45	198.35	199.24	200.06	201.06	201.96	202.86	203.78
29	202.68	203.60	204.50	205.43	206.36	207.29	208.24	209.17	210.10	211.06
30	209.67	210.63	211.56	212.52	213.48	214.44	215.43	216.39	217.35	218.34

CYLINDERS

45 Inches Diameter.

under	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	7.31	7.34	7.37	7.40	7.44	7.47	7.50	7.53	7.57	7.60
2	14.62	14.68	14.74	14.80	14.88	14.94	15.00	15.06	15.14	15.20
3	21.93	22.02	22.11	22.20	22.32	22.41	22.50	22.59	22.71	22.80
4	29.24	29.36	29.48	29.60	29.76	29.88	30.00	30.12	30.28	30.40
5	36.55	36.70	36.85	37.00	37.20	37.35	37.50	37.65	37.85	38.00
6	43.80	44.05	44.25	44.44	44.64	44.83	45.03	45.23	45.43	45.63
7	51.17	51.35	51.62	51.85	52.08	52.31	52.54	52.77	53.00	53.23
8	58.48	58.72	59.00	59.26	59.52	59.78	60.04	60.31	60.57	60.84
9	65.79	66.07	66.37	66.67	66.96	67.25	67.55	67.85	68.14	68.44
10	73.10	73.42	73.75	74.08	74.41	74.73	75.06	75.39	75.72	76.05
11	80.41	80.76	81.12	81.48	81.85	82.20	82.56	82.92	83.29	83.65
12	87.72	88.10	88.50	88.89	89.29	89.67	90.07	90.46	90.86	91.26
13	95.03	95.44	95.87	96.30	96.73	97.14	97.57	98.00	98.43	98.86
14	102.34	102.78	103.25	103.71	104.17	104.62	105.08	105.54	106.00	106.47
15	109.65	110.13	110.62	111.12	111.61	112.09	112.59	113.08	113.58	114.07
16	116.96	117.47	118.00	118.52	119.05	119.56	120.09	120.62	121.15	121.68
17	124.27	124.81	125.37	125.93	126.39	127.04	127.60	128.16	128.72	129.28
18	131.58	132.15	132.75	133.34	133.93	134.51	135.10	135.70	136.21	136.89
19	138.89	139.49	140.12	140.75	141.37	141.98	142.61	143.24	143.86	144.49
20	146.20	146.85	147.50	148.16	148.82	149.46	150.12	150.78	151.44	152.10
21	153.51	154.18	154.87	155.56	156.26	156.9	157.62	158.31	159.01	159.70
22	160.82	161.52	162.25	162.97	163.70	164.40	165.13	165.85	166.58	167.31
23	168.13	168.86	169.62	170.38	171.14	171.87	172.63	173.39	174.15	174.91
24	175.34	176.20	177.00	177.79	178.58	179.35	180.14	180.93	181.72	182.52
25	182.75	183.55	184.27	185.20	186.02	186.82	187.65	188.47	189.30	190.12
26	190.00	190.89	191.75	192.60	193.46	194.29	195.15	196.01	196.87	197.73
27	197.37	198.83	199.12	200.01	200.90	201.77	202.66	203.55	204.44	205.33
28	204.68	205.57	206.50	207.42	208.34	209.24	210.16	211.09	212.01	212.94
29	211.99	212.91	213.77	214.83	215.78	216.71	217.67	218.63	219.58	220.54
30	219.30	220.26	221.25	222.24	223.25	224.19	225.18	226.17	227.16	228.15

A T A

*Note, the Area of half the diameter
of any Circle, is equal to $\frac{1}{4}$ of the
Area of the whole diameter.*

T

A R I

G

DEC

Calculat

A

T A B L E

SHEWING THE

AREAS OF SQUARES

I N

G A L L O N S

A N D

DECIMILLESIMAL PARTS.

Calculated to every Tenth Part, and Quarter of an
Inch of the Side, from 1 to 100 Inches.

F

How to find the Content of a
Brewers Tun in y.^e form of a
frustum of a Cone —

Multiply both the diameters each
by its self. that done Mult: their
product together — find the square
Root of that Sum. then add that
square root. and the squares of both
the diameters together. Which sum
Mult: by $\frac{1}{3}$ of the Tunns. Altitude
and the product divide by 277.05
or Mult: by .00361 Gives the Cont.
in Gallons & parts —

AREAS of SQUARES

43

In GALLONS.

Side.	.0	.1	.2	.25	.3	.4
1	.004595	.00556	.006617	.007180	.007766	.009007
2	.0183	.0202	.0222	.0232	.0243	.0264
3	.0413	.0441	.0470	.0485	.0500	.0531
4	.0735	.0772	.0810	.0830	.0849	.0889
5	.1148	.1195	.1243	.1266	.1290	.1340
6	.1654	.1710	.1766	.1795	.1823	.1882
7	.2251	.2316	.2382	.2415	.2448	.2516
8	.2941	.3015	.3090	.3127	.3165	.3242
9	.3722	.3805	.3889	.3932	.3974	.4060
10	.4595	.4687	.4781	.4828	.4875	.4970
11	.5560	.5662	.5764	.5816	.5868	.5972
12	.6617	.6728	.6840	.6896	.6952	.7066
13	.7766	.7886	.8007	.8068	.8129	.8251
14	.9007	.9136	.9266	.9331	.9397	.9529
15	1.0340	1.0478	1.0617	1.0687	1.0757	1.0898
16	1.1764	1.1912	1.2060	1.2135	1.2210	1.2360
17	1.3281	1.3438	1.3595	1.3674	1.3754	1.3913
18	1.4889	1.5055	1.5222	1.5306	1.5390	1.5558
19	1.6590	1.6765	1.6941	1.7029	1.7118	1.7295
20	1.8382	1.8566	1.8751	1.8844	1.8937	1.9125
21	2.0266	2.0460	2.0654	2.0751	2.0849	2.1045
22	2.2242	2.2445	2.2649	2.2751	2.2853	2.3058
23	2.4310	2.4522	2.4735	2.4842	2.4949	2.5163
24	2.6470	2.6691	2.6913	2.7024	2.7136	2.7360
25	2.8722	2.8952	2.9183	2.9299	2.9415	2.9648
26	3.1066	3.1305	3.1545	3.1666	3.1787	3.2029
27	3.3501	3.3750	3.3999	3.4525	3.4250	3.4501
28	3.6029	3.6289	3.6546	3.6675	3.6806	3.7067
29	3.8648	3.8915	3.9183	3.9316	3.9452	3.9722
30	4.1360	4.1636	4.1913	4.2052	4.2191	4.2470

F 2

AREAS

AREAS of SQUARES

In GALLONS.

Side.	.5	.6	.7	.75	.8	.9
1	.01034	.0117	.0132	.0140	.0148	.0165
2	.0287	.0310	.0335	.0347	.0360	.0386
3	.0562	.0595	.0629	.0646	.0663	.0699
4	.0930	.0972	.1015	.1036	.1058	.1103
5	.1390	.1441	.1493	.1519	.1546	.1599
6	.1941	.2002	.2063	.2093	.2125	.2187
7	.2585	.2654	.2724	.2760	.2795	.2868
8	.3320	.3399	.3477	.3518	.3558	.3640
9	.4147	.4235	.4323	.4368	.4413	.4504
10	.5066	.5163	.5261	.5310	.5360	.5460
11	.6077	.6183	.6290	.6344	.6398	.6507
12	.7180	.7295	.7412	.7470	.7529	.7647
13	.8375	.8500	.8625	.8688	.8751	.8879
14	.9662	.9795	.9930	.9998	1.0066	1.0202
15	1.1040	1.1183	1.1377	1.1300	1.1472	1.1618
16	1.2511	1.2663	1.2816	1.2893	1.2970	1.3125
17	1.4074	1.4235	1.4397	1.4478	1.4560	1.4724
18	1.5728	1.5898	1.6070	1.6156	1.6242	1.6415
19	1.7474	1.7654	1.7835	1.7925	1.8016	1.8198
20	1.9312	1.9501	1.9691	1.9786	1.9882	2.0073
21	2.1243	2.1441	2.1640	2.1740	2.1840	2.2040
22	2.3265	2.3472	2.3680	2.3785	2.3889	2.4099
23	2.5379	2.5595	2.5812	2.5921	2.6031	2.6250
24	2.7585	2.7810	2.8037	2.8150	2.8264	2.8493
25	2.9882	3.0117	3.0353	3.0471	3.0589	3.0727
26	3.2272	3.2516	3.2761	3.2884	3.3007	3.3254
27	3.4754	3.5007	3.5261	3.5388	3.5516	3.5772
28	3.7328	3.7591	3.7854	3.7985	3.8118	3.8384
29	3.9995	4.0264	4.0537	4.0673	4.0810	4.1085
30	4.2750	4.3031	4.3312	4.3454	4.3595	4.3879

AREAS

Index

205

AREAS of SQUARES

45

In GALLONS.

Side.	.0	.1	.2	.25	.3	.4
31	4.4163	4.4448	4.4735	4.4878	4.5022	4.5310
32	4.7058	4.7353	4.7648	4.7796	4.7945	4.8242
33	5.0045	5.0349	5.0654	5.0807	5.0959	5.1266
34	5.3126	5.3437	5.3751	5.3909	5.4066	5.4382
35	5.6295	5.6618	5.6941	5.7103	5.7265	5.7590
36	5.9558	5.9890	6.0222	6.0388	6.0555	6.0889
37	6.2913	6.3254	6.3595	6.3766	6.3937	6.4281
38	6.6360	6.6710	6.7060	6.7236	6.7412	6.7764
39	6.9898	7.0257	7.0617	7.0797	7.0978	7.1340
40	7.3529	7.3897	7.4266	7.4451	7.4636	7.5007
41	7.7251	7.7629	7.8007	7.8196	7.8386	7.8766
42	8.1066	8.1452	8.1840	8.2034	8.2228	8.2617
43	8.4972	8.5368	8.5764	8.5963	8.6162	8.6560
44	8.8970	8.9375	8.9781	8.9984	9.0188	9.0595
45	9.3060	9.3474	9.3889	9.4097	9.4305	9.4722
46	9.7242	9.7666	9.8090	9.8302	9.8515	9.8941
47	10.1516	10.1949	10.2382	10.2599	10.2816	10.3251
48	10.5882	10.6323	10.6766	10.6988	10.7210	10.7654
49	11.0340	11.0790	11.1242	11.1468	11.1695	11.2148
50	11.4889	11.5349	11.5810	11.6041	11.6272	11.6735
51	11.9531	12.0000	12.0470	12.0705	12.0941	12.1413
52	12.4264	12.4743	12.5222	12.5462	12.5702	12.6184
53	12.9090	12.9577	13.0066	13.0310	13.0555	13.1045
54	13.4007	13.4504	13.5001	13.5251	13.5500	13.6000
55	13.9016	13.9522	14.0029	14.0283	14.0537	14.1045
56	14.4117	14.4632	14.5148	14.5407	14.5665	14.6185
57	14.9310	14.9835	15.0360	15.0623	15.0886	15.1413
58	15.4595	15.5129	15.5663	15.5931	15.6199	15.6735
59	15.9972	16.0515	16.1058	16.1330	16.1603	16.2148
60	16.5441	16.5993	16.6545	16.6822	16.7099	16.7654

AREAS

AREAS of SQUARES

In GALLONS.

Side.	.5	.6	.7	.75	.8	.9
31	4.5599	4.5889	4.6180	4.6320	4.6472	4.6765
32	4.8540	4.8840	4.9140	4.9290	4.9441	4.9743
33	5.1573	5.1882	5.2191	5.2346	5.2501	5.2812
34	5.4698	5.5016	5.5335	5.5494	5.5654	5.5974
35	5.7915	5.8242	5.8570	5.8734	5.8898	5.9228
36	6.1224	6.1560	6.1897	6.2060	6.2235	6.2574
37	6.4625	6.4970	6.5316	6.5590	6.5863	6.6011
38	6.8118	6.8472	6.8827	6.9005	6.9183	6.9540
39	7.1702	7.2066	7.2430	7.2613	7.2795	7.3162
40	7.5379	7.5751	7.6125	7.6312	7.6500	7.6875
41	7.9147	7.9529	7.9912	8.0103	8.0296	8.0680
42	8.3007	8.3398	8.3790	8.3987	8.4183	8.4577
43	8.6960	8.7360	8.7761	8.7962	8.8163	8.8566
44	9.1004	9.1413	9.1824	9.2029	9.2235	9.2647
45	9.5140	9.5558	9.5978	9.6188	9.6399	9.6820
46	9.9368	9.9796	10.0224	10.0439	10.0654	10.1085
47	10.3688	10.4125	10.4563	10.4782	10.5001	10.5441
48	10.8099	10.8545	10.8993	10.9217	10.9441	10.9890
49	11.2603	11.3058	11.3515	11.3743	11.3972	11.4430
50	11.7190	11.7663	11.8129	11.8362	11.8595	11.9062
51	12.1886	12.2360	12.2835	12.3072	12.3310	12.3787
52	12.6666	12.7149	12.7633	12.7875	12.8117	12.8603
53	13.1537	13.2029	13.2522	13.2769	13.3016	13.3511
54	13.6500	13.7001	13.7504	13.7755	13.8007	13.8511
55	14.1555	14.2066	14.2577	14.2833	14.3090	14.3603
56	14.6702	14.7222	14.7743	14.8003	14.8264	14.8787
57	15.1941	15.2470	15.3000	15.3265	15.3531	15.4062
58	15.7272	15.7810	15.8349	15.8619	15.8889	15.9430
59	16.2695	16.3242	16.3790	16.4065	16.4340	16.4890
60	16.8210	16.8766	16.9324	16.9603	16.9882	17.0341

AREAS

AREAS of SQUARES

47

In GALLONS.

Side.	.0	.1	.2	.25	.3	.4
61	17.1001	17.1502	17.2125	17.2400	17.2687	17.3251
62	17.6654	17.7224	17.7796	17.8081	17.8368	17.8941
63	18.2398	18.2978	18.3558	18.3849	18.4140	18.4722
64	18.8235	18.8824	18.9413	18.9708	19.0004	19.0595
65	19.4163	19.4761	19.5360	19.5660	19.5960	19.6660
66	20.0183	20.0791	20.1399	20.1703	20.2007	20.2617
67	20.6296	20.6912	20.7529	20.7838	20.8147	20.8766
68	21.2500	21.3125	21.3751	21.4065	21.4379	21.5007
69	21.8795	21.9430	22.0066	22.0384	22.0702	22.1340
70	22.5183	22.5827	22.6472	22.6795	22.7118	22.7764
71	23.1663	23.2316	23.2970	23.3297	23.3625	23.4281
72	23.8235	23.8897	23.9560	23.9892	24.0224	24.0889
73	24.4898	24.5570	24.6242	24.6574	24.6915	24.7590
74	25.1654	25.2335	25.3016	25.3357	25.3698	25.4382
75	25.8501	25.9191	25.9882	26.0228	26.0573	26.1266
76	26.5441	26.6140	26.6840	26.7190	26.7540	26.8242
77	27.2472	27.3180	27.3889	27.4244	27.4599	27.5310
78	27.9595	28.0312	28.1031	28.1390	28.1750	28.2470
79	28.6810	28.7537	28.8264	28.8628	28.8993	28.9722
80	29.4117	29.4853	29.5590	29.5958	29.6327	29.7066
81	30.1516	30.2261	30.3007	30.3380	30.3754	30.4501
82	30.9007	30.9761	31.0516	31.0894	31.1272	31.2029
83	31.6590	31.7353	31.8117	31.8500	31.8882	31.9648
84	32.4264	32.5037	32.5810	32.6197	32.6585	32.7360
85	33.2031	33.2813	33.3595	33.4087	33.4470	33.5163
86	33.9889	34.0680	34.1472	34.1868	34.2265	34.3058
87	34.7840	34.8640	34.9441	34.9842	35.0243	35.1045
88	35.5882	35.6691	35.7505	35.7907	35.8313	35.9125
89	36.4016	36.4835	36.5654	36.6064	36.6474	36.7296
90	37.2242	37.3070	37.3898	37.4313	37.4728	37.5558

AREAS

Ind. Std. - Side.

AREAS of SQUARES

In GALLONS.

Side.	.5	.6	.7	.75	.8	.9
61	17.3816	17.4382	17.4949	17.5232	17.5516	17.6085
62	17.9515	18.0090	18.0665	18.0954	18.1242	18.1820
63	18.5305	18.5889	18.6474	18.6767	18.7060	18.7647
64	19.1188	19.5781	19.2375	19.2672	19.2970	19.3566
65	19.7162	19.7764	19.8368	19.8670	19.8972	19.9577
66	20.3228	20.3840	20.4452	20.4759	20.5066	20.5080
67	20.9386	21.0007	21.0629	21.0940	21.1251	21.1875
68	21.5636	21.6166	21.6897	21.7213	21.7529	21.8162
69	22.1978	22.2617	22.3257	22.3578	22.3898	22.4540
70	22.8412	22.9060	22.9710	23.0035	23.0360	23.1011
71	23.4937	23.5595	23.6254	23.6583	23.6913	23.7573
72	24.1555	24.2222	24.2890	24.3224	24.3558	24.4228
73	24.8265	24.8941	24.9618	24.9956	25.0295	25.0974
74	25.5066	25.5751	25.6437	25.6781	25.7124	25.7812
75	26.1960	26.2654	26.3349	26.3697	26.4045	26.4743
76	26.8945	26.9648	27.0353	27.0706	27.1058	27.1705
77	27.6022	27.6735	27.7448	27.7806	27.8163	27.8879
78	28.3191	28.3913	28.4636	28.4998	28.5360	28.6084
79	29.0452	29.1183	29.1915	29.2282	29.2648	29.3382
80	29.7805	29.8545	29.9287	29.9658	30.0029	30.0772
81	30.5250	30.6000	30.6750	30.7126	30.7501	30.8254
82	31.2787	31.3545	31.4305	31.4685	31.5066	31.5827
83	32.0415	32.1183	32.1952	32.2337	32.2722	32.3493
84	32.8136	32.8913	32.9691	33.0080	33.0470	33.1250
85	33.5949	33.6735	33.7522	33.7916	33.8310	33.9099
86	34.3853	34.4640	34.5445	34.5843	34.6242	34.7040
87	35.1849	35.2654	35.3460	35.3863	35.4266	35.5074
88	35.9938	36.0751	36.1566	36.1974	36.2382	36.3199
89	36.8118	36.8941	36.9765	37.0177	37.0590	37.1415
90	37.6390	37.7222	37.8055	37.8472	37.8889	37.9724

AREAS

Index

AREAS of SQUARES							49
In GALLONS.							
Side.	.0	.1	.2	.25	.3	.4	
91	38.0500	38.1397	38.2235	38.2654	38.3074	38.3913	
92	38.8970	38.9816	39.0663	39.1087	39.1511	39.2360	
93	39.7472	39.8327	39.9183	39.9612	40.0041	40.0899	
94	40.6066	40.6930	40.7796	40.8228	40.8662	40.9529	
95	41.4751	41.5655	41.6500	41.6927	41.7375	41.8251	
96	42.3529	42.4412	42.5295	42.5738	42.6180	42.7066	
97	43.2398	43.3290	43.4183	43.4630	43.5077	43.5972	
98	44.1360	44.2261	44.3163	44.3615	44.4066	44.4970	
99	45.0413	45.1324	45.2235	45.2691	45.3147	45.4060	
100	45.9558	46.0478	46.1399	46.1859	46.2320	46.3242	

How to find the N^o of feet in a round
 piece of timber, such as the Butt of a Tree
 &c. by the Slide. — Rule Set the
 length upon C. to 3.544 in the Mid-
 dle of line D. And under the Circum-
 ference (being taken in inch^s) on D.
 You'll have the Cont^t in feet & parts on
 C.

G

AREAS

The above proved by Tho: H. Carmell

5 inches

AREAS of SQUARES						
In GALLONS.						
Side.	.5	.6	.7	.75	.8	.9
91	38.4754	38.5595	38.6438	38.6859	38.7281	38.8125
92	39.3210	39.4060	39.4912	39.5338	39.5764	39.6618
93	40.1757	40.2617	40.3478	40.3909	40.4340	40.5202
94	41.0397	41.1266	41.2136	41.2571	41.3007	41.3879
95	41.9120	42.0007	42.0886	42.1326	42.1766	42.2647
96	42.7952	42.8840	42.9728	43.0172	43.0617	43.1507
97	43.6868	43.7764	43.8662	43.9111	43.9560	44.0460
98	44.5875	44.6781	44.7688	44.8141	44.8595	44.9504
99	45.4974	45.5889	45.6805	45.7263	45.7722	45.8640
100	46.4166	46.5090	46.6015	46.6478	46.6941	46.7868

Now to Segmt a Cask that's lying with-
out Changing the Slide Rule—
Rule

Set the wet inches in the 1st radius
on line B. to Unit on line A—
And under the like wet inch^s in the
2^d Radius on line B— you have
the quantity of liquor on the Cask
on line S: D.

A TABLE

Rule by the Pen. divide the N^o of Gallons you want to
Att by 11 and the Q^{ty} in 11 will be the N^o of Gallons

51

Gall.	Alc.	Gall.	Alc.	Gall.	Alc.	Gall.	Alc.
1	.09	36	3.27	71	6.45	700	63.63
2	.18	37	3.36	72	6.54	800	72.72
3	.27	38	3.45	73	6.63	900	81.81
4	.36	39	3.54	74	6.72	1000	90.90
5	.45	40	3.63	75	6.81	2000	181.81
6	.54			76	6.90	3000	272.72
7	.63	41	3.72	77	7.00	4000	363.63
8	.72	42	3.81	78	7.09	5000	454.54
9	.81	43	3.90	79	7.18	6000	545.45
10	.90	44	4.00	80	7.27	7000	636.36
		45	4.09			8000	727.27
11	1.00	46	4.18	81	7.36	9000	818.18
12	1.09	47	4.27	82	7.45	10000	909.09
13	1.18	48	4.36	83	7.54	11000	999.99
14	1.27	49	4.45	84	7.63	12000	1090.90
15	1.36	50	4.54	85	7.72	13000	1181.81
16	1.45			86	7.81	14000	1272.72
17	1.54	51	4.63	87	7.90	15000	1363.63
18	1.63	52	4.72	88	8.00	16000	1454.54
19	1.72	53	4.81	89	8.09	17000	1545.45
20	1.81	54	4.99	90	8.18	18000	1636.36
		55	5.00			19000	1727.27
21	1.90	56	5.09	91	8.27	20000	1818.18
22	2.00	57	5.18	92	8.36	30000	2727.27
23	2.09	58	5.27	93	8.45	40000	3636.36
24	2.18	59	5.36	94	8.54	50000	4545.45
25	2.27	60	5.45	95	8.63	60000	5454.54
26	2.36			96	8.72	70000	6363.63
27	2.45	61	5.54	97	8.81	80000	7272.72
28	2.54	62	5.63	98	8.90	90000	8181.81
29	2.63	63	5.72	99	9.00	100000	9090.90
30	2.72	64	5.81	100	9.09	200000	18181.80
		65	5.90			300000	27272.70
31	2.81	66	6.00	200	18.18	400000	36363.60
32	2.90	67	6.09	300	27.27	500000	45454.50
33	3.00	68	6.18	400	36.36		
34	3.09	69	6.27	500	45.45		
35	3.18	70	6.36	600	54.54		

Allow:—

G 2

Adlowce!

Answer:

This table was Conceded by Thomas Hannell

Beer X and Vi: Allowance 212.

52

A TABLE of Allowance to Common Brewers of
2½ Gallons in 23 for Beer X & VI.

Gall.	Beer.	Gall.	Beer.	Gall.	Beer.	Gall.	Beer.
1	1.10	36	3.91	71	7.71	700	76.09
2	1.21	37	4.02	72	7.82	800	87.96
3	1.32	38	4.13	73	7.93	900	97.83
4	1.43	39	4.23	74	8.04	1000	108.69
5	1.54	40	4.34	75	8.15	2000	217.39
6	1.65			76	8.26	3000	326.08
7	1.76	41	4.45	77	8.36	4000	434.77
8	1.86	42	4.56	78	8.47	5000	543.46
9	1.97	43	4.67	79	8.58	6000	652.15
10	2.08	44	4.78	80	8.69	7000	760.84
		45	4.89			8000	869.53
11	2.19	46	5.00	81	8.80	9000	978.22
12	2.30	47	5.10	82	8.91	10000	1086.91
13	2.41	48	5.21	83	9.02	11000	1195.60
14	2.52	49	5.32	84	9.13	12000	1304.29
15	2.63	50	5.43	85	9.24	13000	1412.98
16	2.74			86	9.34	14000	1521.67
17	2.84	51	5.54	87	9.45	15000	1630.36
18	2.95	52	5.65	88	9.56	16000	1739.05
19	3.06	53	5.76	89	9.67	17000	1847.74
20	3.17	54	5.86	90	9.78	18000	1956.43
		55	5.97			19000	2065.12
21	3.28	56	6.08	91	9.89	20000	2173.81
22	3.39	57	6.19	92	10.00	30000	3260.72
23	3.50	58	6.30	93	10.10	40000	4347.63
24	3.60	59	6.41	94	10.21	50000	5434.54
25	3.71	60	6.52	95	10.32	60000	6521.45
26	3.82			96	10.43	70000	7608.36
27	3.93	61	6.63	97	10.54	80000	8695.27
28	4.04	62	6.74	98	10.65	90000	9782.18
29	4.15	63	6.84	99	10.76	100000	10869.09
30	4.26	64	6.95	100	10.86		
		65	7.06				
31	4.36	66	7.17	200	21.74		
32	4.47	67	7.28	300	32.61		
33	4.58	68	7.39	400	43.48		
34	4.69	69	7.50	500	54.35		
35	4.80	70	7.60	600	65.22		

Allow.

Allow.

Allow.

Allow.

Rule by the Con. Divide the N^o of Gallons you want to Sell by 9.2
And your Quotient will be the N^o Equal to this Table

A MO
Reve
tion
Dub

Gall.	Ex
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	2
19	2
20	2
21	2
22	2
23	2
24	2
25	2
26	3
27	3
28	3
29	3
30	3
31	3
32	3
33	3
34	3
35	4

A MONEY TABLE for ALE, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in Dublin.

Gall.	Excise.			Gall.	Excise.			Gall.	Excise.			Gall.	Excise.		
s.	d.		s.	d.		l.	s.	d.	l.	s.	d.	l.	s.	d.	
1	—	1½ 584	36	4	2½ 024	71	—	8 3 464	700	4	1 5 800				
2	—	2½ 168	37	4	3½ 608	72	—	8 4½ 048	800	4	13 — 200				
3	—	4 752	38	4	5 192	73	—	8 5½ 632	900	5	4 8½ 600				
4	—	5½ 336	39	4	6½ 776	74	—	8 7½ 216	1000	5	16 4 —				
5	—	6½ 920	40	4	7½ 360	75	—	8 8½ 800	1100	6	7 11½ 400				
6	—	8½ 504	41	4	9 944	76	—	8 10 384	1200	6	19 7 800				
7	—	9½ 088	42	4	10½ 528	77	—	8 11½ 968	1300	7	11 2½ 200				
8	—	11 672	43	5	— 112	78	—	9 — 552	1400	8	2 10½ 600				
9	1	— 256	44	5	1½ 696	79	—	9 2½ 136	1500	8	14 6 —				
10	1	1½ 840	45	5	2½ 280	80	—	9 3½ 720	1600	9	6 1½ 400				
11	1	3½ 424	46	5	4 864	81	—	9 5 304	1700	9	17 9 800				
12	1	4½ 008	47	5	5½ 448	82	—	9 6½ 888	1800	10	9 4½ 200				
13	1	6 592	48	5	7 022	83	—	9 7½ 472	1900	11	1 — ¼ 600				
14	1	7½ 176	49	5	8½ 610	84	—	9 9½ 056	2000	11	12 8 —				
15	1	8½ 760	50	5	9½ 200	85	—	9 10½ 640	2100	12	4 3½ 400				
16	1	10½ 344	51	5	11 784	86	—	10 — 224	2200	12	15 11 800				
17	1	11½ 928	52	6	— 368	87	—	10 1½ 808	2300	13	7 6½ 200				
18	2	1 512	53	6	1½ 952	88	—	10 2½ 392	2400	13	19 2½ 600				
19	2	2½ 096	54	6	3½ 536	89	—	10 4 976	2500	14	10 10 —				
20	2	3½ 680	55	6	4½ 120	90	—	10 5½ 560	2600	15	2 5½ 400				
21	2	5½ 264	56	6	6 704	91	—	10 7 144	2700	15	14 1 800				
22	2	6½ 848	57	6	7½ 288	92	—	10 8½ 728	2800	16	5 8½ 200				
23	2	8 432	58	6	8½ 872	93	—	10 9½ 312	2900	16	17 4½ 600				
24	2	9½ 016	59	6	10½ 456	94	—	10 11 896	3000	17	9 —				
25	2	10½ 600	60	6	11½ 040	95	—	11 — 480	3100	18	— 7½ 400				
26	3	— 184	61	7	1 624	96	—	11 2 064	3200	18	12 3 800				
27	3	1½ 768	62	7	2½ 208	97	—	11 3½ 648	3300	19	3 10½ 200				
28	3	3 352	63	7	3½ 792	98	—	11 4½ 232	3400	19	15 6½ 600				
29	3	4½ 936	64	7	5½ 386	99	—	11 6 816	3500	20	7 2 —				
30	3	5½ 520	65	7	6½ 960	100	—	11 7½ 400	3600	20	18 9½ 400				
31	3	7½ 104	66	7	8 544	200	1	3 3 800	3700	21	10 5 800				
32	3	8½ 688	67	7	9½ 128	300	1	14 10½ 200	3800	22	2 — ¼ 000				
33	3	10 272	68	7	10½ 712	400	2	6 6½ 600	3900	22	13 8½ 600				
34	3	11½ 856	69	8	— 296	500	2	18 2 —	4000	23	5 4 —				
35	4	— 140	70	8	1½ 880	600	3	9 9½ 400	4100	23	16 11½ 400				

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A MONEY TABLE for ALE, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in Dublin.

Gall.	Excise.				Gall.	Excise.				Gall.	Excise.			
	l.	s.	d.			l.	s.	d.			l.	s.	d.	
4400	24	8	7	800	7700	44	15	9	800	22000	127	19	4	—
4500	25	—	2 $\frac{1}{2}$	200	7800	45	7	4 $\frac{1}{2}$	200	23000	133	15	8	—
4600	25	11	10 $\frac{1}{2}$	600	7900	45	19	—	600	24000	139	12	—	—
4700	26	3	6	—	8000	46	10	8	—	25000	145	8	4	—
4800	26	15	1 $\frac{1}{2}$	400	8100	47	2	3 $\frac{1}{2}$	400	26000	151	4	8	—
4900	27	6	9	800	8200	47	13	11	800	27000	157	1	—	—
5000	27	18	4 $\frac{1}{2}$	200	8300	48	5	6 $\frac{1}{2}$	200	28000	162	17	4	—
5100	28	10	—	600	8400	48	17	2 $\frac{1}{2}$	600	29000	168	13	8	—
5200	29	1	8	—	8500	49	8	10	—	30000	174	10	—	—
5300	29	13	3 $\frac{1}{2}$	400	8600	50	—	5 $\frac{1}{2}$	400	40000	232	13	4	—
5400	30	4	11	800	8700	50	12	1	800	50000	290	16	8	—
5500	30	16	6 $\frac{1}{2}$	200	8800	51	3	8 $\frac{1}{2}$	200	60000	349	—	—	—
5600	31	8	2 $\frac{1}{2}$	600	8900	51	15	4 $\frac{1}{2}$	600	70000	407	3	4	—
5700	31	19	10	—	9000	52	7	—	—	80000	465	6	8	—
5800	32	11	5 $\frac{1}{2}$	400	9100	52	18	7 $\frac{1}{2}$	400	90000	523	10	—	—
5900	33	3	1	800	9200	53	10	3	800	100000	581	13	4	—
6000	33	14	8 $\frac{1}{2}$	200	9300	54	1	10 $\frac{1}{2}$	200					
6100	34	6	4 $\frac{1}{2}$	600	9400	54	13	6 $\frac{1}{2}$	600					
6200	34	18	—	—	9500	55	5	2	—					
6300	35	9	7 $\frac{1}{2}$	400	9600	55	16	9 $\frac{1}{2}$	400					
6400	36	1	3	800	9700	56	8	5	800					
6500	36	12	10 $\frac{1}{2}$	200	9800	57	—	—	200					
6600	37	4	6 $\frac{1}{2}$	600	9900	57	11	8 $\frac{1}{2}$	600					
6700	37	16	2	—	10000	58	3	4	—					
6800	38	7	5 $\frac{1}{2}$	400	11000	63	19	8	—					
6900	38	19	5	800	12000	69	16	—	—					
7000	39	11	—	200	13000	75	12	4	—					
7100	40	2	8 $\frac{1}{2}$	600	14000	81	8	8	—					
7200	40	14	4	—	15000	87	5	—	—					
7300	41	5	11 $\frac{1}{2}$	400	16000	93	1	4	—					
7400	41	17	7	800	17000	98	17	8	—					
7500	42	9	2 $\frac{1}{2}$	200	18000	104	14	—	—					
7600	43	—	10 $\frac{1}{2}$	600	19000	110	10	4	—					
7700	43	12	6	—	20000	116	6	8	—					
7800	44	4	1 $\frac{1}{2}$	400	21000	122	3	—	—					

A MONEY TABLE for ALE, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in Dublin.

Gall.	Excise.		
	l.	s.	d.
1	—	—	1
2	—	—	2
3	—	—	4
4	—	—	5
5	—	—	6
6	—	—	8
7	—	—	9
8	—	—	10
9	1	—	—
10	1	—	1
11	1	—	3
12	1	—	4
13	1	—	5
14	1	—	7
15	1	—	8
16	1	—	9
17	1	—	11
18	2	—	—
19	2	—	1
20	2	—	3
21	2	—	4
22	2	—	6
23	2	—	7
24	2	—	8
25	2	—	10
26	2	—	11
27	3	—	—
28	3	—	2
29	3	—	3
30	3	—	5
31	3	—	6
32	3	—	7
33	3	—	9
34	3	—	10

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A MONEY TABLE for SMALL-BEER, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in Dublin.

Gall.	Excise.		Gall.	Excise.		Gall.	Excise.		Gall.	Excise.		Gall.	Excise.	
	s.	d.		s.	d.		s.	d.		s.	d.		s.	d.
1	—	—	1	—	—	69	1	5 $\frac{1}{2}$	400	—	8	6 $\frac{1}{2}$	—	—
2	—	—	2	—	—	70	1	5 $\frac{1}{2}$	500	—	10	8	500	—
3	—	—	3	—	—	71	1	6	600	—	12	9 $\frac{1}{2}$	—	—
4	—	—	4	—	—	72	1	6 $\frac{1}{2}$	700	—	14	11 $\frac{1}{2}$	500	—
5	—	—	5	—	—	73	1	6 $\frac{1}{2}$	800	—	17	1	—	—
6	—	—	6	—	—	74	1	6 $\frac{1}{2}$	900	—	19	2 $\frac{1}{2}$	500	—
7	—	—	7	—	—	75	1	7	1000	1	1	4 $\frac{1}{2}$	—	—
8	—	—	8	—	—	76	1	7 $\frac{1}{2}$	1100	1	3	5 $\frac{1}{2}$	500	—
9	—	—	9	—	—	77	1	7 $\frac{1}{2}$	1200	1	5	7 $\frac{1}{2}$	—	—
10	—	—	10	—	—	78	1	7 $\frac{1}{2}$	1300	1	7	9	500	—
11	—	—	11	—	—	79	1	8	1400	1	9	10 $\frac{1}{2}$	—	—
12	—	—	12	—	—	80	1	8 $\frac{1}{2}$	1500	1	12	—	500	—
13	—	—	13	—	—	81	1	8 $\frac{1}{2}$	1600	1	14	2	—	—
14	—	—	14	—	—	82	1	9	1700	1	16	3 $\frac{1}{2}$	500	—
15	—	—	15	—	—	83	1	9 $\frac{1}{2}$	1800	1	18	5 $\frac{1}{2}$	—	—
16	—	—	16	—	—	84	1	9 $\frac{1}{2}$	1900	2	—	6 $\frac{1}{2}$	500	—
17	—	—	17	—	—	85	1	9 $\frac{1}{2}$	2000	2	2	8 $\frac{1}{2}$	—	—
18	—	—	18	—	—	86	1	10	2100	2	4	10	500	—
19	—	—	19	—	—	87	1	10 $\frac{1}{2}$	2200	2	6	11 $\frac{1}{2}$	—	—
20	—	—	20	—	—	88	1	10 $\frac{1}{2}$	2300	2	9	1 $\frac{1}{2}$	500	—
21	—	—	21	—	—	89	1	10 $\frac{1}{2}$	2400	2	11	3	—	—
22	—	—	22	—	—	90	1	11	2500	2	13	4 $\frac{1}{2}$	500	—
23	—	—	23	—	—	91	1	11 $\frac{1}{2}$	2600	2	15	6 $\frac{1}{2}$	—	—
24	—	—	24	—	—	92	1	11 $\frac{1}{2}$	2700	2	17	7 $\frac{1}{2}$	500	—
25	—	—	25	—	—	93	1	11 $\frac{1}{2}$	2800	2	19	9 $\frac{1}{2}$	—	—
26	—	—	26	—	—	94	2	—	2900	3	1	11	500	—
27	—	—	27	—	—	95	2	—	3000	3	4	—	—	—
28	—	—	28	—	—	96	2	—	3100	3	6	2 $\frac{1}{2}$	500	—
29	—	—	29	—	—	97	2	—	3200	3	8	4	—	—
30	—	—	30	—	—	98	2	1	3300	3	10	5 $\frac{1}{2}$	500	—
31	—	—	31	—	—	99	2	1 $\frac{1}{2}$	3400	3	12	7 $\frac{1}{2}$	—	—
32	—	—	32	—	—	100	2	1 $\frac{1}{2}$	3500	3	14	8 $\frac{1}{2}$	500	—
33	—	—	33	—	—	200	4	3 $\frac{1}{2}$	3600	3	16	10 $\frac{1}{2}$	—	—
34	—	—	34	—	—	300	6	4 $\frac{1}{2}$	3700	3	19	—	500	—

A M
N
la
U

Gall.	s.	d.
3800	—	—
3900	—	—
4000	—	—
4100	—	—
4200	—	—
4300	—	—
4400	—	—
4500	—	—
4600	—	—
4700	—	—
4800	—	—
4900	—	—
5000	—	—
5100	—	—
5200	—	—
5300	—	—
5400	—	—
5500	—	—
5600	—	—
5700	—	—
5800	—	—
5900	—	—
6000	—	—
6100	—	—
6200	—	—
6300	—	—
6400	—	—
6500	—	—
6600	—	—
6700	—	—
6800	—	—
6900	—	—
7000	—	—
7100	—	—

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A MONEY TABLE for SMALL-BEER, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in Dublin.

Gall.	Excise.			Gall.	Excise.			Gall.	Excise.		
	<i>l.</i>	<i>s.</i>	<i>d.</i>		<i>l.</i>	<i>s.</i>	<i>d.</i>		<i>l.</i>	<i>s.</i>	<i>d.</i>
3800	4	1	1 $\frac{3}{4}$ —	7200	7	13	9—	70000	74	14	9 $\frac{1}{2}$ —
3900	4	3	3 $\frac{1}{4}$ 500	7300	7	15	10 $\frac{1}{2}$ 500	80000	85	8	4—
4000	4	5	5—	7400	7	18	—	90000	96	1	10 $\frac{1}{2}$ —
4100	4	7	6 $\frac{1}{2}$ 500	7500	8	—	1 $\frac{3}{4}$ 500	100000	106	15	5—
4200	4	9	8 $\frac{1}{4}$ —	7600	8	2	3 $\frac{1}{2}$ —				
4300	4	11	9 $\frac{1}{2}$ 500	7700	8	4	5 500				
4400	4	13	11 $\frac{1}{2}$ —	7800	8	6	6 $\frac{1}{4}$ —				
4500	4	16	1 500	7900	8	8	8 $\frac{1}{4}$ 500				
4600	4	18	2 $\frac{1}{4}$ —	8000	8	10	10—				
4700	5	—	4 $\frac{1}{2}$ 500	8100	8	12	11 $\frac{1}{2}$ 500				
4800	5	2	6—	8200	8	15	1 $\frac{1}{4}$ —				
4900	5	4	7 $\frac{1}{2}$ 500	8300	8	17	2 $\frac{1}{4}$ 500				
5000	5	6	9 $\frac{1}{4}$ —	8400	8	19	4 $\frac{1}{2}$ —				
5100	5	8	10 $\frac{3}{4}$ 500	8500	9	1	6 500				
5200	5	11	— $\frac{1}{2}$ —	8600	9	3	7 $\frac{1}{2}$ —				
5300	5	13	2 500	8700	9	5	9 $\frac{1}{4}$ 500				
5400	5	15	3 $\frac{1}{4}$ —	8800	9	7	11—				
5500	5	17	5 $\frac{1}{2}$ 500	8900	9	10	— $\frac{1}{2}$ 500				
5600	5	19	7—	9000	9	12	2 $\frac{1}{2}$ —				
5700	6	1	8 $\frac{1}{2}$ 500	9100	9	14	3 $\frac{1}{2}$ 500				
5800	6	3	10 $\frac{1}{4}$ —	9200	9	16	5 $\frac{1}{2}$ —				
5900	6	5	11 $\frac{1}{2}$ 500	9300	9	18	7 500				
6000	6	8	1 $\frac{1}{2}$ —	9400	10	—	8 $\frac{1}{4}$ —				
6100	6	10	3 500	9500	10	2	10 $\frac{1}{4}$ 500				
6200	6	12	4 $\frac{1}{2}$ —	9600	10	5	—				
6300	6	14	6 $\frac{1}{4}$ 500	9700	10	7	1 $\frac{1}{2}$ 500				
6400	6	16	8—	9800	10	9	3 $\frac{1}{4}$ —				
6500	6	18	9 $\frac{1}{2}$ 500	9900	10	11	4 $\frac{3}{4}$ 500				
6600	7	—	11 $\frac{1}{4}$ —	10000	10	13	6 $\frac{1}{2}$ —				
6700	7	3	— $\frac{1}{4}$ 500	20000	21	7	1—				
6800	7	5	2 $\frac{1}{2}$ —	30000	32	—	7 $\frac{1}{2}$ —				
6900	7	7	4 500	40000	42	14	2—				
7000	7	9	5 $\frac{1}{4}$ —	50000	53	7	8 $\frac{1}{2}$ —				
7100	7	11	7 $\frac{1}{4}$ 500	60000	64	1	3—				

H

Cork, & Country: Money Table

218

(58)

A MONEY TABLE for ALE, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches: Used in the Country.

Excise.			Excise.			Excise.			Excise.		
Gall.			Gall.			Gall.			Gall.		
s.	d.	Parts of a farthing.	s.	d.	Parts of a farthing.	s.	d.	Parts of a farthing.	l.	s.	d.
1	1 1/2		31	3 11 1/2		61	7 9 1/2		91	11 7 1/2	
2	3 1/2		32	4 1		62	7 11 1/4	=	92	11 9 1/4	
3	4 3/4		33	4 2 1/2		63	8 0		93	11 10 1/2	
4	6 1/4		34	4 4		64	8 2		94	12 0 1/2	
5	7 1/2		35	4 5 1/2		65	8 3 1/2		95	12 1 1/2	
6	9 1/4		36	4 7 1/4	=	66	8 5 1/4		96	12 3 1/4	
7	10 1/2		37	4 8 1/2		67	8 6 1/2		97	12 4 1/2	
8	12 1/2		38	4 10 1/2		68	8 8 1/2		98	12 6 1/2	
9	14 1/2		39	4 11 1/2		69	8 9 1/2		99	12 7 1/2	
10	16 1/2		40	5 1		70	8 11 1/2		100	12 9 1/2	
11	18 1/2		41	5 2 1/2		71	9 1 1/2	=	200	1 5 7	
12	20 1/2		42	5 4 1/2		72	9 2 1/2		300	1 18 4 1/2	
13	22 1/2		43	5 5 1/2		73	9 4 1/2		400	2 11 2	
14	24 1/2		44	5 7 1/2		74	9 5 1/2		500	3 3 11 1/2	
15	26 1/2		45	5 9 1/2		75	9 7 1/2	=	600	3 16 9	
16	28 1/2		46	5 10 1/2		76	9 8 1/2		700	4 9 6 1/2	
17	30 1/2		47	6 0 1/4	=	77	9 10 1/4	=	800	5 2 4	
18	32 1/2		48	6 1 1/4		78	9 11 1/4		900	5 15 1 1/2	
19	34 1/2		49	6 3 1/4		79	10 1 1/4		1000	6 7 11	
20	36 1/2		50	6 4 1/4		80	10 2 1/4		2000	12 15 10	
21	38 1/2		51	6 6 1/4		81	10 4 1/4		3000	19 3 9	
22	40 1/2		52	6 7 1/4		82	10 5 1/4		4000	25 11 8	
23	42 1/2		53	6 9 1/4		83	10 7 1/4		5000	31 19 7	
24	44 1/2		54	6 10 1/4		84	10 8 1/4		6000	38 7 6	
25	46 1/2		55	7 0 1/2	=	85	10 10 1/2		7000	44 15 5	
26	48 1/2		56	7 1 1/2		86	10 11 1/2		8000	51 3 4	
27	50 1/2		57	7 3 1/2		87	11 1 1/2		9000	57 11 3	
28	52 1/2		58	7 5 1/2		88	11 3 1/2		10000	63 19 2	
29	54 1/2		59	7 6 1/2	=	89	11 4 1/2		20000	127 18 4	
30	56 1/2		60	7 8 1/2		90	11 6 1/2	=	30000	191 17 6	

N. B. In the annexed table 1/8 or any Number Over is Accounted a Farthing

N. B. in the Abstract of every Month you are to enter your Vict^l Charge for that Month

him
also

219 *Cork and Country* (39)

A MONEY TABLE for SMALL BEER, in which the Net Hereditary Revenue and Additional Duties are calculated and proportioned to the Gallon of 217.6. Cubic Inches : Used in the Country.

Excise.			Parts of a Gall.	Excise.			Parts of a Gall.	Excise.			Parts of a Gall.	Excise.			Parts of a Gall.	Excise.			Parts of a Gall.
s.	d.	Parts of a farthing.		s.	d.	Parts of a farthing.		s.	d.	Parts of a farthing.		l.	s.	d.		l.	s.	d.	
1			31	8 3/4			61	1	5 1/4			91	2	2					
2			32	9			62	1	5 1/2			92	2	2 1/4					
3			33	9 1/4			63	1	6			93	2	2 1/2					
4	1		34	9 1/2			64	1	6 1/4			94	2	3					
5	1 1/4		35	10			65	1	6 1/2			95	2	3 1/4					
6	1 1/2		36	10 1/4			66	1	6 3/4			96	2	3 1/2					
7	2		37	10 1/2			67	1	7			97	2	3 3/4					
8	2 1/4		38	10 3/4			68	1	7 1/4			98	2	4					
9	2 1/2		39	11			69	1	7 1/2			99	2	4 1/4					
10	2 3/4		40	11 1/4			70	1	8			100	2	4 1/2					
11	3		41	11 1/2			71	1	8 1/4			200	4	9 1/2					
12	3 1/4		42	11 3/4			72	1	8 1/2			300	7	2 1/2					
13	3 1/2		43	12			73	1	8 3/4			400	9	7					
14	4		44	12 1/4			74	1	9 1/4			500	11	11 1/2					
15	4 1/4		45	12 1/2			75	1	9 1/2			600	14	4 1/2					
16	4 1/2		46	12 3/4			76	1	9 3/4			700	16	9 1/2					
17	4 3/4		47	13			77	1	10			800	19	2					
18	5		48	13 1/4			78	1	10 1/4			900	1	1	6 1/2				
19	5 1/4		49	13 1/2			79	1	10 1/2			1000	1	3	11 1/2				
20	5 1/2		50	13 3/4			80	1	10 3/4			2000	2	7	11				
21	6		51	14			81	1	11 1/4			3000	3	11	10 1/2				
22	6 1/4		52	14 1/4			82	1	11 1/2			4000	4	15	10				
23	6 1/2		53	14 1/2			83	1	11 3/4			5000	5	19	9 1/2				
24	6 3/4		54	15			84	2	—			8000	9	11	0				
25	7		55	15 1/4			85	2	—			9000	10	15	7 1/2				
26	7 1/4		56	15 1/2			86	2	—			10000	11	19	7				
27	7 1/2		57	15 3/4			87	2	1			11000	16	15	5				
28	8		58	16			88	2	1 1/4			12000	17	19	4 1/2				
29	8 1/4		59	16 1/4			89	2	1 1/2			13000							
30	8 1/2		60	16 1/2			90	2	1 3/4			14000							

H 2

If a Victuallers Porter you are to charge him duty for it. And shew the Gall of Porter always in the Voucher like a new Brewing.

A New and Correct MONEY TABLE for STORNG
WATERS, at 2d. 8d. and 10d. per Gallon, for
1 to 2000 Gallons.

Gall.	2d.			8d.			10d.			Gall.	2d.			8d.			10d.		
	s.	d.	l.	s.	d.	l.	s.	d.	l.		s.	d.	l.	s.	d.	l.	s.	d.	l.
1	—	2	—	8	—	—	10	—	—	31	5	2	1	—	8	1	5	10	—
2	—	4	—	1	4	—	1	8	—	32	5	4	1	1	4	1	6	8	—
3	—	6	—	2	—	—	2	6	—	33	5	6	1	2	—	1	7	6	—
4	—	8	—	2	8	—	3	4	—	34	5	8	1	2	8	1	8	4	—
5	—	10	—	3	4	—	4	2	—	35	5	10	1	3	4	1	9	2	—
6	1	—	—	4	—	—	5	—	—	36	6	—	1	4	—	1	10	—	—
7	1	2	—	4	8	—	5	10	—	37	6	2	1	4	8	1	10	10	—
8	1	4	—	5	4	—	6	8	—	38	6	4	1	5	4	1	11	8	—
9	1	6	—	5	6	—	7	6	—	39	6	6	1	6	—	1	12	6	—
10	1	8	—	6	8	—	8	4	—	40	6	8	1	6	8	1	13	4	—
11	1	10	—	7	4	—	9	2	—	41	6	10	1	7	4	1	14	2	—
12	2	—	—	8	—	—	10	—	—	42	7	—	1	8	—	1	15	—	—
13	2	2	—	8	8	—	10	10	—	43	7	2	1	8	8	1	15	10	—
14	2	4	—	9	4	—	11	8	—	44	7	4	1	9	4	1	16	8	—
15	2	6	—	10	—	—	12	6	—	45	7	6	1	10	—	1	17	6	—
16	2	8	—	10	8	—	13	4	—	46	7	8	1	10	8	1	18	4	—
17	2	10	—	11	4	—	14	2	—	47	7	10	1	11	4	1	19	2	—
18	3	—	—	12	—	—	15	—	—	48	8	—	1	12	—	2	—	—	—
19	3	2	—	12	8	—	15	10	—	49	8	2	1	12	8	2	—	10	—
20	3	4	—	13	4	—	16	8	—	50	8	4	1	13	4	2	1	8	—
21	3	6	—	14	—	—	17	6	—	51	8	6	1	14	—	2	2	6	—
22	3	8	—	14	8	—	18	4	—	52	8	8	1	14	8	2	3	4	—
23	3	10	—	15	4	—	19	2	—	53	8	10	1	15	4	2	4	2	—
24	4	—	—	16	—	—	1	—	—	54	9	—	1	16	—	2	5	—	—
25	4	2	—	16	8	—	1	10	—	55	9	2	1	16	8	2	5	10	—
26	4	4	—	17	4	—	1	8	—	56	9	4	1	17	4	2	6	8	—
27	4	6	—	18	—	—	1	6	—	57	9	6	1	18	—	2	7	6	—
28	4	8	—	18	8	—	1	3	4	58	9	8	1	18	8	2	8	4	—
29	4	10	—	19	4	—	1	4	2	59	9	10	1	19	4	2	9	2	—
30	5	—	—	1	—	—	1	5	—	60	10	—	2	—	—	2	10	—	—

A New
WA
Gallo

Gall.	2d.			8d.			10d.		
	s.	d.	l.	s.	d.	l.	s.	d.	l.
61	10	2	—	—	—	—	—	—	—
62	10	4	—	—	—	—	—	—	—
63	10	6	—	—	—	—	—	—	—
64	10	8	—	—	—	—	—	—	—
65	10	10	—	—	—	—	—	—	—
66	11	—	—	—	—	—	—	—	—
67	11	2	—	—	—	—	—	—	—
68	11	4	—	—	—	—	—	—	—
69	11	6	—	—	—	—	—	—	—
70	11	8	—	—	—	—	—	—	—
71	11	10	—	—	—	—	—	—	—
72	12	—	—	—	—	—	—	—	—
73	12	2	—	—	—	—	—	—	—
74	12	4	—	—	—	—	—	—	—
75	12	6	—	—	—	—	—	—	—
76	12	8	—	—	—	—	—	—	—
77	12	10	—	—	—	—	—	—	—
78	13	—	—	—	—	—	—	—	—
79	13	2	—	—	—	—	—	—	—
80	13	4	—	—	—	—	—	—	—
81	13	6	—	—	—	—	—	—	—
82	13	8	—	—	—	—	—	—	—
83	13	10	—	—	—	—	—	—	—
84	14	—	—	—	—	—	—	—	—
85	14	2	—	—	—	—	—	—	—
86	14	4	—	—	—	—	—	—	—
87	14	6	—	—	—	—	—	—	—
88	14	8	—	—	—	—	—	—	—
89	14	10	—	—	—	—	—	—	—
90	15	—	—	—	—	—	—	—	—

mis
leas
such

A New and Correct MONEY TABLE for STRONG
WATERS, at 2d. 8d. and 10d. per Gallon, for 1 to 20000
Gallons.

Gall.	2d.			8d.			10d.			Gall.	2d.			8d.			10d.		
	s.	d.	l.	s.	d.	l.	s.	d.	l.		s.	d.	l.	s.	d.	l.	s.	d.	
61	10	2	2	—	8	2	10	10	91	—	15	2	3	—	8	3	15	10	
62	10	4	2	1	4	2	11	8	92	—	15	4	3	1	4	3	16	8	
63	10	6	2	2	—	2	12	6	93	—	15	6	3	2	—	3	17	6	
64	10	8	2	2	8	2	13	4	94	—	15	8	3	2	8	3	18	4	
65	10	10	2	3	4	2	14	2	95	—	15	10	3	3	4	3	19	2	
66	11	—	2	4	—	2	15	—	96	—	16	—	3	4	—	4	—	—	
67	11	2	2	4	8	2	15	10	97	—	16	2	3	4	8	4	—	10	
68	11	4	2	5	4	2	16	8	98	—	16	4	3	5	4	4	1	8	
69	11	6	2	6	—	2	17	6	99	—	16	6	3	6	—	4	2	6	
70	11	8	2	6	8	2	18	4	100	—	16	8	3	6	8	4	3	4	
71	11	10	2	7	4	2	19	2	200	1	13	4	6	13	4	8	6	8	
72	12	—	2	8	—	3	—	—	300	2	10	—	10	—	—	12	10	—	
73	11	2	2	8	8	3	—	10	400	3	6	8	13	6	8	16	13	4	
74	12	4	2	9	4	3	1	8	500	4	3	4	16	13	4	20	16	8	
75	12	6	2	10	—	3	2	6	600	5	—	—	20	—	—	25	—	—	
76	12	8	2	10	8	3	3	4	700	5	16	8	23	6	8	29	3	4	
77	12	10	2	11	4	3	4	2	800	6	13	4	26	13	4	33	6	8	
78	13	—	2	12	—	3	5	—	900	7	10	—	30	—	—	37	10	—	
79	13	2	2	12	8	3	5	10	1000	8	6	8	33	6	8	41	13	4	
80	13	4	2	13	4	3	6	8	2000	16	13	4	66	13	4	83	6	8	
81	13	6	2	14	—	3	7	6	3000	25	—	—	100	—	—	125	—	—	
82	13	8	2	14	8	3	8	4	4000	33	6	8	133	6	8	166	13	4	
83	13	10	2	15	4	3	9	2	5000	41	13	4	166	13	4	208	6	8	
84	14	—	2	16	—	3	10	—	6000	50	—	—	200	—	—	250	—	—	
85	14	2	2	16	8	3	10	10	7000	58	6	8	233	6	8	291	13	4	
86	14	4	2	17	4	3	11	8	8000	66	13	4	266	13	4	333	6	8	
87	14	6	2	18	—	3	12	6	9000	75	—	—	300	—	—	375	—	—	
88	14	8	2	18	8	3	13	4	10000	83	6	8	333	6	8	416	13	4	
89	14	10	2	19	4	3	14	2	20000	166	13	4	666	13	4	833	6	8	
90	15	—	3	—	—	3	15	—											

N. B. all Victuallers in Residence
must be visited every Saturday evening.
least they should begin to Brew. & finish
such Clandestine Brew. before y^r next Visit;

How to Inch & Tabulate a
Brewers Tun in the form of a
frustum of a Cone —

Rule.

Divide the Difference of diameters
by $\frac{1}{6}$ of the Altitude. half the
Quotient is a Common addend if the
Tun stands upon its lesser Base.
Or Subducend if it stands upon its
greater Base to find the diam. in
middle of the first 6 Inches —

And the whole Quotient is an
Addend, or Subducend for every 6
Inches of the remaining part of the
Tuns Altitude —

Examp: at y.^e other side —

Depth

6-

12

10.

26

Turns Alt: 26 In.

Greater base 50

Lesser Base 25

Alt $\div 6$ $\begin{array}{r} 4 \overline{) 25.00} \\ \underline{12} \\ 13 \\ \underline{12} \\ 1 \end{array}$ 6.25

Subducing 3.125

Depth	Diam?	M ⁿ area	Cont: on way 6 In.
	50.		
	3.125		
6	46.875	7.931	47.506
	6.25		
12	40.625	5.957	35.742
	6.25		
10	34.375	4.265	25.590
	6.25		
26	20.125	2.055	17.130
	3.125		
	25.		
			Cont: <u>126.040</u>

How to find a Mean Dip in any Back. or Cooler —

Divide the Sum of the Wet Ins.^s taken — by the Number of Dips which in large Coolers ought to be taken in every L. or 5 feet Square the Quotient is y.^e mean Dip —

Example —

n. ^o dip.	Wet Ins. ^s
1	3.9
2	3.4
3	3.6
4	3.0
5	2.0
6	2.3
7	1.7
8	1.5
9	1.1

$$9 \overline{) 23.3}$$

Mean Dip 2.50

Directions for the ready finding all the ACTS in
EDGAR, &c. which correspond with the Business
of an EXCISE-OFFICER.

PAGE

ANY Seaman or other Person, either aiding or being present at the delivering or receiving of any Goods from any Ship, &c. and shall not within a Month after disclose the same, he shall, for every such Offence, forfeit ten Pounds *sterl.* to be levied by Distress, or in Default thereof, be committed to the next House of Correction. *Vide Edgar,*

133

If any Person (not being a Principal) but an Abettor, shall discover such Frauds, he shall not only be acquitted of the Penalty in Relation to himself, but shall also receive one Moiety of the Fines.

172

Any Person who shall Harbour, or permit to be harboured, sell, or expose to Sale, or buy any Excisable Goods (knowing them to be run) shall, beside the Forfeiture of the Goods, forfeit also treble the Value of them. *Ann. Georg. Reg. 12.*

Every retailing Brewer, who shall brew or make any Guile of Beer or Ale, shall declare to the proper Gauger, how much Strong, and how much Small he intends to make before he removes it; or upon the Brewer, or his respective Servant's Refusal to make such Declaration, the Gauger is to charge the Whole strong, and the Brewer shall not only pay the Duty accordingly, but also forfeit twenty Shillings for each Barrel contained in the said Brewing. 4 *Georgii I. Cap. 2. Sect. 7.*—and *Edgar.*

288

If a Brewer, or his Servants, shall mix or make any Increase whatsoever in Beer or Ale, (nay even from what remained of a former Brewing, unless in the Sight of the Gauger) such Brewer shall forfeit for every Barrel the Sum of five Pounds, and the Servant

I i

assisting,

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affixing, the Sum of twenty Shillings for every Barrel, or in Default suffer three Months Imprisonment. PAGE 288

Note, Arms and Ammunition are exempted from Payment of Excise. Vide Excise-Act, Sect. 7th.—and Edgar 127

If any common Brewer shall refuse the Gauger to enter into his House, Brew-house, or any other House or Place belonging to him, and to see his Coppers and other Vessels, or shall deny to shew the Beer or Ale made by him, he shall forfeit for every such Denial the Sum of fifty Pounds, and be also presently forbidden by the Officer, to carry or deliver any Beer or Ale; which if he shall nevertheless do, he shall forfeit double the Value of all such Beer or Ale. *Vide Excise-Act, Sect. 38.—and Edgar,* 148

Every Gauger has a Right to taste Drink in Inn-keepers Cellars, and upon the Inn-keepers refusing, he is to forfeit five Pounds. *4 Georg. Reg. Sect. 9th— and Edgar* 289

All and every the Brewing-Vessels and Utensils used in any Brew-house, into whose Hands the same shall come, and by what Conveyance or Title soever the same shall be claimed, shall be liable to all Arrears and Penalties incurred by the Person so using the said Brew-house. *1 Georgij II. Regis, Cap. 1. Sect. 5.*

Observe, No Distiller is to carry out, or deliver any Aqua Vitæ, or Spirits, to any Customer, by a Cask or Gallon (without Notice given to the proper Officer) unless at lawful Hours, viz. from the 25th of March, to the 29th of September, between the Hours of three in the Morning, and nine in the Evening; and from the 29th of September to the 25th of March, between the Hours of five in the Morning, and eight in the Evening; or for every such Offence forfeit ten Pounds. And all and every the Stills, Worms, Still-heads, Tubs, and other Utensils, are liable to all Arrears and Penalties due by any Person for Spirits distilled in the said House,

House, let them be found with whomsoever, or under what colour soever. 1 *Georg. Reg. Cap. 1. Sect. 5.*

If any Sheriff, or his Deputy, shall make Replevin of any Distress, taken for Excise or Penalties, every such Sheriff shall forfeit double the Sum for which the Distress was taken. *Excise-Act, Sect. 63.*—and *Edgar,*

166

At Fairs the Persons shall pay their Extise before they Tap, and upon their refusing, the Officer may seize and detain the said Beer or Ale, until paid the Duty. *Excise-Act, Sect. 40.*—and *Edgar*

150

A Collector is to receive yearly the Fees here mentioned, and no more, upon Pain of forfeiting ten Pounds *Sterl.* and lose his Employ, *viz.* One Shilling for Ale; the like for X Waters; and two Shillings for Wine Licences. *Vide 14, 15, 17 and 18 Carol. II. Cap. 18, 19. Sect. the 3d,*—and *Edgar,*

241

For Quit-Rent the Collector may demand the Fees hereafter mentioned, and no more, *viz. Vide 9 Guliel. III. Cap. 31. Sect. 4.*

For every Acquittance they shall give for any Sum above five Shillings, and not exceeding twenty Shillings.	}	l. s. d. — — 6
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For every Sum above twenty Shillings, and not exceeding five Pounds. —	}	— 1 —
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For every Sum above five Pounds and not exceeding fifteen Pounds —	}	— 1 6
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And for every Sum above fifteen Pounds.	}	— 2 —
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And in no Case to receive any more for any one Acquittance than two Shillings.

For entering the Acquittance, and sign- ing the Book, by the Persons paying.	}	— — 2
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For want of Distress to satisfy any Fine or Penalty, the Person to be committed to the next Goal or House of Correction, where the Goaler is to receive them, and set them to Work (by which they are to be maintained) and if he suffer any such Person to escape, he is to forfeit double the Sum by Distress. *Vide Excise Act Sect. 63.—and Edgar*

166

Persons guilty of a wilful Perjury at an Excise-Office, and thereof convicted at an Assizes or Quarter-Sessions, the Person so offending, is to be put in the Pillory, by a *Stat. 28 Elizab. Vide Edgar,*

170

Any Person who shall presume to sell Ale without Licence, shall for every Time he so offends, forfeit five Pounds. 14 and 15 *Carol. II. Cap. 18.—and Edgar*

228

If any Person concerned in the Excise, shall conceal any Person's Licence, he shall for every Offence forfeit ten Pounds.

ibid.

An Officer, upon Denial of Entrance (may with the Constable break open Doors in the Day-time). 1 *Georg. II. Cap. 1. Sect. 4.*

If any Person shall assault or rescue from an Officer in seizing any exciseable Goods, he shall for the first Offence forfeit one hundred Pounds; or on Failure of Payment, suffer twelve Months Imprisonment: And for the second Offence, shall be transported to some of his Majesty's Plantations in *America*; there to continue for seven Years. 12 *Geo. I. Sect. 15.*

Compounders to sell Beer and Ale in their Dwelling-houses only, by Virtue of their Agreement, and if he shall sell Beer or Ale by the Barrel, &c. to any House-keeper, Victualler, &c. out of his Dwelling-house, the Person so selling, and he who buys, shall each forfeit the Sum of forty Shillings, to be levied by Distress. *Vide Edgar*

151

Barter deemed Sale in the Act of Excise. *Vide Edgar*

139

Porters,

Porters, Carmen, &c. refusing to carry Goods to the Excise Office, or other Place of Security, which Goods have been seized by an Officer; such Porter &c. shall forfeit ten Pounds, to be levied by Distress, provided he be rendered reasonable Allowance for his Trouble. *Vide Edgar*

159

Upon Information, Witnesses or Parties in any District may be summoned, as if resident where such Information was exhibited; and such Persons refusing to appear; or appearing, refusing to swear; or swearing, refusing to give direct Answers, shall forfeit ten Pounds, to be levied by Distress; and for want of Distress, to be committed to the next Goal, or House of Correction. *Ann. quint. Georg. 2. Regis.—and Edgar*

165

If any Person, believing himself aggrieved by any Judgment of a Sub-Commissioner, designs to appeal, such Appeal must be made within two Calendar Months after such Judgment; or it shall not be received. *Ann. 12 Geo. I. Cap. 1. Sect. 7.*

Brewers distrained by the Judgment of a Sub-Commissioner (in Cases of Concealments) must prosecute his or their Complaint before a Justice of the Peace, within the Time of fourteen Days, otherwise the Officer may proceed to the Sale of the Goods and Chattels so distrained. *Excise-Act, Sect. 44.—and Edgar*

152

No Person whatsoever shall presume to keep a common Ale-house, or Tippling-house, or use selling of Beer or Ale without Licence; upon Pain that every Person so offending, shall for every Time forfeit the Sum of five Pounds. 14 and 15 *Carol. Cap. 18.—and Edgar*.

219

Licensed Persons must be those of good Behaviour, able to entertain Travellers, their Dwelling must be in convenient Places, as Market-towns, in Villages, or on Roads. 14 and 15 *Carol. II. Cap. 18.—and Edgar*

217

Every Person so licensed, is to have a Sign or Bush at his Door, to inform Travellers and Strangers. *Vide Car. ibid.—and Edgar,*

222
No

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No Person, (unless he be licenced) shall sell by Retail, viz. by the Pint, Quart, Pottle, or Gallon, or by any greater or lesser Retailing-Measure, any kind of Aqua Vitæ, or Spirits, to be drank or spent within his Mansion-house, or any other Place in his Tenure or Occupation, by any Means whatsoever, upon Pain of forfeiting for every such Offence, the Sum of five Pounds. 17 and 18 Carol. II. Cap. 15—and Edgar,

237

Every Sub-Commissioner (if required by the Defendant) is to take his Oath, administered by the Clerk of the Seizures, that he is disinterested, and neither to gain or lose, by that Information, depending before him: And upon refusing such an Oath, he is then disqualified to hear the Matter. *Ann. quint. Georg. II. Reg.*

All Wines in Hogheads, Brandy, and other foreign Spirits, in Vessels containing more than four Gallons; Tobacco above the Weight of four Pounds; Silk in Whole Pieces; Tea exceeding the Weight of two Pounds, that shall be carried into the Land-Parts of this Kingdom, shall be liable to be seized by any Officer of his Majesty's Revenue, and deemed forfeited, unless the Carrier shall actually produce a Permit from the proper Office, or make Oath of the Loss of such Permit. *Ann. Quint. Georg. II. Reg.*

Fees to be taken by Officers for Permits: For any Permit of any Quantity of Tobacco under a Hundred Pound Weight, or other Goods under the Value of five Pounds, *one Penny*, and no more. And for every Permit for any Quantity of Tobacco of one hundred Weight and upwards, and other Goods of the Value of five Pounds and upwards, *three Pence*, and no more. *Ibid.*

An Officer may distrain for Ale, Wine, or X-Water-Licence (by Day with a Constable). *Ibid.*

No Person is to have a Still fixed, farther from a Market-town than the Space of two Miles, under Pain

of

of forfeiting the Sum of Forty Pounds. Nor shall any Person keep a fixed Still for his private Use, which shall contain more than twelve Gallons; upon Pain of being deemed a common Distiller, and liable to the Duties arising from such Liquor. *Ibid.*

No Person deemed a Retailer, but such as sells under a Gallon of Spirits. *Ibid.*

Observe that all Persons convicted for private selling, are for the first Offence to forfeit twenty Shillings; and for the second forty; but for the third he shall not only forfeit three Pounds, *Sterl.* but may be sent to Goal, till he enters into Bond, with good Surety, in the Penal Sum of twenty Pounds *Sterl.* that he will not sell at any Time afterwards. See *Edgar*

146

All Persons convicted of private selling, are in the Law deemed Retailers, and consequently are not only liable to the Fine, but also by the Hereditary Act, made the 14 and 15 of *Charles the 2d.* are to be charged with Licence and Excise for all the Liquor found with them, till the *Easter* following. See *Edgar* Page 125, and Line 22d, where he says (any Person who shall tap or sell Beer or Ale publickly or privately) which Words make this Act applicable to private as well as publick Brewers.

Officers to have 20 Days Notice of Trial in Actions brought against them. See the Act made the 7th Year of the Reign of King George II, entitled, *An Act for the more effectual preventing Frauds and Abuses in his Majesty's Customs and Excise.*

Copies of the Entries of Officers Commissions to be allowed as Evidence in all Suits, Indictments, and Informations. *Ibid.*

Note, That the Situation of Backs and Coolers are not to be altered, under the Penalty of five Pounds. *Ibid.*

Note, That the several Duties and Forfeitures arising by Licences for selling of Ale, Wine, and X-Waters,

are

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are to be collected and paid as by the Act of Excise.
Vide an Act made in the 7th Year of King George the
 II. viz. (an Act for continuing and amending) an Act
 for preventing several Frauds and Abuses committed
 in his Majesty's Customs and Excise, by which it is
 plain, that the Commissioners and Sub-commissioners
 have full Power to summons, hear, judge, and fine in
 the above Cases, as they have in the Excise-Act, to
 which they are referred; which Act of Excise is to
 continue as fully and effectually as if expressed in the
 Body of this Act. See an Act made in the same Year,
 entitled, *An Act for granting his Majesty a further ad-*
ditional Duty on Wine, &c.

Thos. Carnetts Book

Sol^d in Dublin 3^d of

Aug^r 1781. —

Cost 3:3 —



F I N I S.

The Twelfth part of the Gross Cont^t of a
 Still subtracted from it gives the Wash
 or Meth Charge —

The twelfth part subtracted from the
 Gross Cont^t gives the Low Wine. or
 Singling Charge —

~~To Gauge a Prismoid~~

To find y^e day of the Week in any
year

To y^e year add its $\frac{1}{4}$. 7500 And y^e
day of the year (omitting fractions)
from the sum subtract 17 in Com=
mon Years. and 18 in Leapy years.
The remainder divide by 7. the
last remainder is the Day of the
Week required. Accounting Sun=
day 1. Mond 2. Tued 3. Wed: 4
Thursd 5. Friday 6. Sat: 0

9 Gall^s of Potale make 1 of Spirits
6 ditto of Molasses 1 of ditto
3 ditto of Potale 1 of Sing^l
3 ditto of Sing^l 1 of Spirits
2 ditto of Low Wine 1 of Spirits
two fifths of the Singling charge subtracted
from it. — Gives the Spirit charge.

Memorandum

In transcribing of Stocks let of
25th March, 25th June, 29th Sept. &
25th December be your last entry days
in each Quarters Closure. Except
you have Worts in y^e Tubs or Cooles &c.
if so you must Continue those
Stocks till Summ^r. & shew the
Turnage in the Old Book, and
transcribe from the last Stock when
Summ^r — Shewing those Vessells
all full that are so, and over y^e small
over (if any) put N^o — Never put
one Entered Cask under another
Except it answers the same Cont^t —
In Transcribing of a Vict^{rs} Stock. leave out
all Casks that are Empty —

Technical terms used in Common
Breweries to show the State of y^e
House, w^{ch} must be always Observed

C. & K. H. Copr. & Kieve Silent
C. H. K. M. G. Copr. Still Kieve Matt Grind^g
C. H. K. G. D. Copr. Still Kieve goods dry
C. L. L. G. Copr. wth water Kieve mask'd
C. L. T. L. Copr. liquor tap Spending^g
C. x B. g. strong worts pump: into Copr.
C. x R. worts in Copr. not boiling
C. x B. g. worts in Copr. Boiling

Still

Potale — Sing: s

P. S. — Not come thro y^e worm

P_r S_r — Coming thro. d^o

P. S. — Half off — better than 1/2 off.

P₁ S₁ — almost off —

off — off — Entirely off —

...Remarks in Common
reverses — At taking the hot
always to get a Declaration from
Brewer. How many Bar^s of strong
malt Beer in that Brew^r. And the
brewer he declares you are to enter
of Book wth his name who declares
When y^e worts are hot mark xh. or vi. b.
When d^o are cold. mark xC. or vi. C.
When d^o are in y^e Tunn. Mark x. wth
vi. rect. — in Casting up the
at disp. you must always allow
deduct the tenth part. from y^e



Super. Charlevoix

John M^c Coy. Quay Malton -

Came to Mr. Hanto Oct^r 3^d 81 -

An Excellent Cure for the Scur- -vy in the Face

2 Ounces of Cream of tartar,

2 Ounces of Glaubers Salts,

2 Ounces of Sulphur Brimstone

The Whole boiled gently in Eight
quarts of Water. Untill its Reduc-
to Six quarts. a Tea Cup full of
to be taken at Night going to Bed
and in the Morning fasting

65	6200
51	2880
	3320